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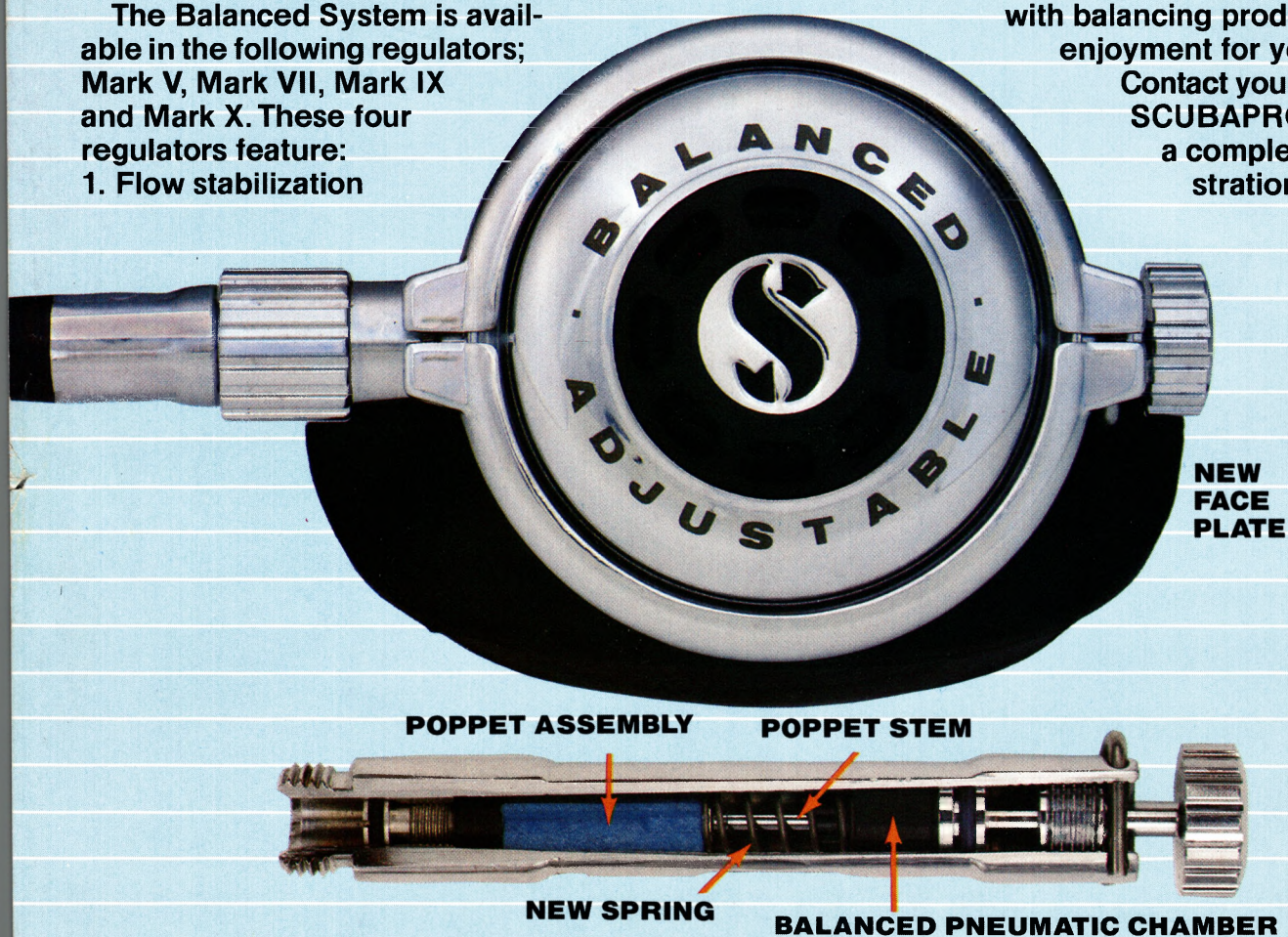
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COVER

Scuba guide Donna McLaughlin demonstrates the gentle art of feeding a Caribbean squirrelfish. Fish feeding has become the number one activity among divers vacationing in this area. Photo/Geri Murphy.

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SDM Editorial

BY THE PUBLISHER



GET THE CHOLESTEROL OUT

There are still more benefits produced by the heart. When a diver descends, nitrogen gas is absorbed into the muscles and tissues of the body. As the diver returns to the surface, this dissolved gas must be carried away rapidly and efficiently so bubbles do not form. Again, it is the heart and circulatory system that accomplish this crucial function.

Perhaps the heart's most important job is to be ready on a moment's notice to produce an extra burst of speed and strength. A diver suddenly caught in a strong current or a tidal shift will need to do some strenuous swimming. This type of physical exertion, performed by the major muscles of the body, can cause a tremendous strain on the heart. A diver's pulse can go from 80 to 170 beats per minute in a very short time. It takes a healthy heart to withstand this stress.

Considering the enormous importance of the heart, it seems logical that a diver would take good care of it. As with teeth, eardrums, feet and other body parts, the heart requires special attention and loving care. Yet, Americans have been ignoring and abusing their hearts for the last 70 years. Since the turn of the century, most Americans have been doing progressively less physical work, eating more and eating less nutritional food. The end result is that an estimated one million Americans die annually from heart related diseases.

There are many things that can injure the heart including: being overweight, smoking, lack of aerobic exercise, high blood pressure, eating too much fat and eating too much cholesterol. Unfortunately, the damage occurs over a long period of time. It cannot be seen nor heard, so most people are unaware it is happening. The first clue is often a fatal heart attack. Others experience strokes, kidney disease, loss of circulation in the legs—all related to heart disease.

Let us focus our attention on eating too much cholesterol, since this is regarded as the major heart killer. It is also easy to eliminate. You can do something about it and save your own life.

Cholesterol is not necessarily bad. In fact, the body needs cholesterol to make cell membranes and produce hormones in the adrenal and sex glands. It is a complex chemical structure different from fat, but often existing in the same types of food as fat.

The interesting point about cholesterol is that the body itself manufactures up to 80 percent of all the cholesterol it needs. The body requires very little via diet. The big problem today is that Americans eat far too much cholesterol-loaded food.

How does cholesterol damage the heart? While the process is quite complex, we will explain it in simple terms without all those fancy medical names. When you eat foods that contain too much cholesterol, you create a "cholesterol overload." The body can only use so much cholesterol a day and the liver makes most of it. The extra cholesterol absorbed from the food simply floats along in the blood stream.

Eventually, all of this extra, free-floating cholesterol begins to deposit itself along the inner walls of the arteries, the largest blood vessels of the body. It keeps piling up in the form of plaque, making larger and larger obstructions. Much the same way corrosion forms on the inside of water pipes, this plaque buildup makes the inside diameter of the arteries narrower. This causes several things to happen. Blood flow can be severely restricted and organs become starved of oxygen. Sometimes blood clots form at the obstruction and then break free, only to jam up in some other part of the circulatory system. Strangely enough, the cholesterol seems to select certain critical spots in the body to begin accumulating. Quite often this occurs at the main artery feeding the heart, brain, kidneys or legs.

For a more detailed explanation of this phenomenon get a copy of a new book entitled, *The Living Heart Diet* written by Dr. Michael E. DeBakey, world-famous heart surgeon. The book is published by Simon & Shuster of New York and sells for \$19.95.

How can you prevent this life threatening buildup of cholesterol? It is easier than you may think. You don't have to give up all foods, move to a deserted lighthouse and live like a monk. It is not a matter of will power—it is a matter of knowledge. You would never consider eating a plate full of rat poison because *you know* it could kill you. It is the same for a plate full of cholesterol-loaded food. Furthermore, you don't have to start some radical fad diet. It just takes common sense and a little bit of study.

Learning which foods contain cholesterol
(Continued on Page 120)

What is the most important organ in the human body: the lungs, the brain, the kidneys? Nope. It's the heart. While all of these organs are important to life, the heart is the one that must perform at peak efficiency to ensure survival. While a person holds his/her breath underwater for one minute, the heart will beat 60 to 70 times.

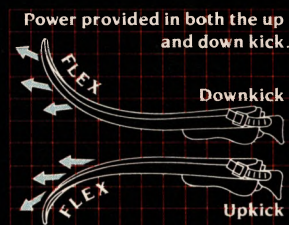
Let us first consider the heart's importance to a diver. This miraculous muscle, with its intricate miles of connecting blood vessels, transports all the oxygen and food our body tissues require. It allows our brain to think, our internal organs to function flawlessly and keeps our muscles moving rhythmically.

For divers, the heart is especially important. We are largely dependent on our legs for underwater locomotion. Swimming with fins permits us to descend, travel along the bottom and, eventually, make an ascent. The diver's legs contain the largest muscles of the body and therefore require the majority of oxygen and energy. It is the heart and blood vessels that deliver these essential products.

In addition, the heart and blood vessels must carry away the waste products of energy burn-off that occurs in the muscle cells. These waste products include carbon dioxide and other poisonous substances that are filtered out by various body organs. Without this disposal system, the diver's legs would soon cramp up and cease functioning.

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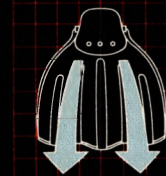
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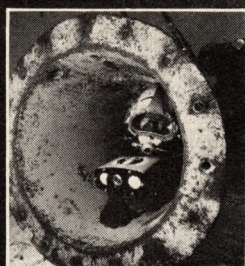
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Scuba Quiz

Category: Diving Medicine

Topic: Medical Terms

By Dennis Graver

The more you learn about diving, the more frequently you are exposed to medical terms. Books, articles and presentations contain words that may be unfamiliar to the average person. Why are they used? Simply because it is much easier to say, for example, "hyperventilation" than it is to say, "excessive respiration leading to an abnormal loss of carbon dioxide from the blood." The following words have been selected because they are frequently mentioned in diving literature. See how well you can match each of them to the definitions. The answers are on the following page.

Words to be matched: Write the letter of each word in the blank corresponding to the definition of the word. Each word is used only once. There is one extra word that is not defined.

- | | |
|------------------|----------------|
| A. Aerotitis | L. Edema |
| B. Aerodentalgia | M. Embolus |
| C. Anaesthesia | N. Emphysema |
| D. Analgesia | O. Haemoptysis |
| E. Anoxia | P. Hyperpnea |
| F. Apnea | Q. Hypercapnia |
| G. Ataxia | R. Hypoxia |
| H. Bradycardia | S. Nystagmus |
| I. Diuresis | T. Tachycardia |
| J. Dyspnea | U. Thrombus |
| K. Dysbarism | |

1. Low oxygen levels in body tissues is _____, while complete deprivation of oxygen is referred to as _____.

2. Abnormally rapid breathing is termed _____, but overactivity in the respiratory center resulting from a large amount of carbon dioxide in the blood is _____.

3. The cessation of breathing for short intervals is referred to as _____, and difficult or labored breathing is known as _____.

4. An unusually slow heart rate is called _____, while excessive rapidity of heartbeat is _____.

5. A plug or clot in a blood vessel or in one of the cavities of the heart is a _____, but a clot or plug brought from another vessel and forced into a smaller one so as to obstruct circulation is a/an _____.

6. _____ is excessive fluid in tissues, while _____ is a swelling produced by gas in body tissues.

7. _____ is inflammation of the ear caused by pressure differences, and _____ is small pockets of gas in the central pulp of a tooth.

8. A pressure-related clinical condition of the body is termed _____, while excessive excretion of urine is known as _____.

9. A person who loses control of muscle movements is suffering from _____, and rhythmic and involuntary movement of the eyeballs is known as _____.

10. Insensibility to pain is referred to as _____, and _____ denotes loss of feeling or sensation in the body or part of it.

Scuba Quiz

Answers: Medical Terms

1. Low oxygen levels in body tissues is **Hypoxia (R)**, while complete deprivation of oxygen is referred to as **Anoxia (E)**.

2. Abnormally rapid breathing is termed **Hyperpnea (P)**, but overactivity in the respiratory center resulting from a large amount of carbon dioxide in the blood is **Hypercapnia (Q)**.

3. The cessation of breathing for short intervals is referred to as **Apnea (F)**, and difficult or labored breathing is known as **Dyspnea (J)**.

4. An unusually slow heart rate is called **Bradycardia (H)**, while excessive rapidity of heartbeat is **Tachycardia (T)**.

5. A plug or clot in a blood vessel or in one of the cavities of the heart is a **Thrombus (U)**, but a clot or plug brought from another vessel and forced into a smaller one so as to obstruct circulation is a/an **Embolus (M)**.

6. **Edema (L)** is excessive fluid in tissues, while **Emphysema (N)** is a swelling produced by gas in body tissues.

7. **Aerotitis (A)** is inflammation of the ear caused by pressure differences, and **Aerodentalgia (B)** is small pockets of gas in the central pulp of a tooth.

8. A pressure-related clinical condition of the body is termed **Dysbarism (K)**, while excessive excretion of urine is known as **Diuresis (I)**.

9. A person who loses control of muscle movements is suffering from **Ataxia (G)**, and rhythmic and involuntary movement of the eyeballs is known as **Nystagmus (S)**.

10. Insensitivity to pain is referred to as **Analgesia (D)**, and **Anaesthesia (C)** denotes loss of feeling or sensation in the body or part of it. Note: The word that was not used is **Haemoptysis (O)**, which denotes bloody sputum.

Ratings: 10-13 correct—Average, 13-17 correct—Excellent, 17-20 correct—Outstanding.

Additional medical terms: The following are parts of the body, which are mentioned frequently in diving literature:

Alveolus: A small membranous sac, which is the end portion of the respiratory system in the lung, wherein gaseous exchange occurs.

Bronchi: Fibro-muscular tubes connecting the trachea (windpipe) to the smaller portions of the respiratory tract.

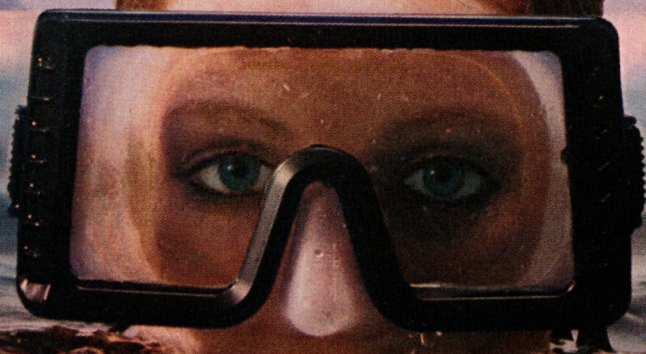
Eustachian Tube: A canal, partly bony and partly cartilaginous, connecting the throat with the middle ear and serving as an air channel by which air pressure within the middle ear is equalized with ambient pressure.

Mediastinum: The portion of the chest cavity between the right and left lungs and containing the heart, the major vessels, and some of the major nerves traversing from the neck to the abdomen.

Tympanic Membrane: A thin membranous partition separating the external ear from the middle ear.

Did you feel challenged by this quiz or overwhelmed? If you did not do well, consider it a learning experience. You do not need to know all of these terms to be a good diver, but knowing and being able to understand them can make you a better diver. The more you learn about diving, the more you discover all that you do not know. Enjoy your diving, and keep on discovering all the things you don't know.

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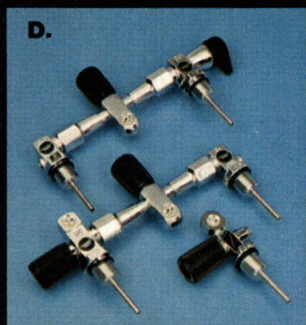
A.



B.



C.



D.



E.

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BY ELLSWORTH BOYD

It is imperative that divers who wish to continue diving on shipwrecks without state and government harassment write to their state senators immediately. Write and strongly protest Texas Senator Lloyd Bentsen's Senate Bill 676, the Abandoned Shipwreck Act, similar to S1504 that we defeated last year. That, too, was introduced by Senator Bentsen.

The jurisdiction of this asinine bill is tremendous. It encompasses "lands beneath navigable waters," "including inland navigable waters and waters that extend seaward to the outer limit of the territorial sea." It says: "Any abandoned shipwreck in or on the public lands of the United States is the property of the U.S. Government." The jurisdiction is wide-sweeping and the bill's restrictions and regulations will extend deep into western and northern states. It is not confined just to the coasts. The whole thing is a ruse to rule us off wrecks we have discovered and will lead to permits and restrictions.

We don't need frivolous legislation such as this because historic shipwrecks are already protected by Admiralty Law, the Marine Sanctuaries Act and anything inside a United States National Park System. The diving community has legitimate concerns that have been ignored totally by bureaucrats such as Bentsen. Bentsen took a resort course in the Virgin Islands last February, made a couple of dives, and thinks he's an experienced diver now. He led some divers in the Virgin Islands to believe he was "seeing the diver's side of the shipwreck issue," then returned and drafted this sinister bill. This is the same senator who cited a document in the Congressional Record that referred to 1,700 wrecks off Texas. It supposedly states that 635 of these are historical. This is very questionable and the list has never been produced for unbiased experts to examine. Texas divers might take note of this. Also take note that Texas

Senator Phil Gramm would like to hear your views against S676.

Florida divers are urged to do the same thing when writing to Senator Paula Hawkins. We owe a rousing vote of thanks to Senator Hawkins for putting a hold on S1504 last year. She saved over one million wreck divers from being legislated out of their rightful domain and we are counting on her support again. She stands up for the rights of ordinary citizens—the little people engulfed by bureaucracy.

Ordinary citizens refer to the federal bureaucracy either as the Bureaucratic Movement (as in "the B.M. of Washington") or as the Bureaucratic System (as in "the B.S. of Washington"). Either way you hack it, it spells excessive regulation and mounds of red tape.

Show Bentsen what he can do with his S676. Let's deep six it by writing to our senators today. Dive clubs, dive store operators, equipment manufacturers, charter boat captains, certification associations—*everybody* must write. Photocopy your letter and send it to several local newspapers too. The media gets plenty of B.M. and B.S. from Washington. Let them hear the ordinary citizen's side of it.

Sometimes it's best to write to your senators at their state offices. If you don't have an address, you may write to them c/o: United States Senate, Washington, DC 20510.

Using the Freedom of Information Act, the Virginia Pilot News, Norfolk, Virginia, obtained federal documents on the USS *Scorpion*, the nuclear powered submarine that sank in 1968. According to declassified reports, the 252 foot long, 3,075 ton sub and its 99 crewmen fell victim to a torpedo explosion aboard ship. The *Scorpion's* crew probably was attempting to disarm a Mark 37 torpedo—that could have been activated by a mechanical malfunction—when the charge

detonated. The vessel, carrying nuclear warheads, went down in deep water about 400 miles southwest of the Azores. The "torpedo malfunction theory" fits all the evidence according to John Craven, a professor who led the investigation of the Navy's secret Deep Submergence Systems Project in 1968. Naval Officials say that test equipment has been redesigned for safety since the accident.

Atlantic City, New Jersey is the site of the Second Annual National Atlantic Alliance Shipwreck Conference, September 20-22. The Alliance has been instrumental in lobbying for shipwreck divers' rights and has grown immensely since its inception over a year ago.

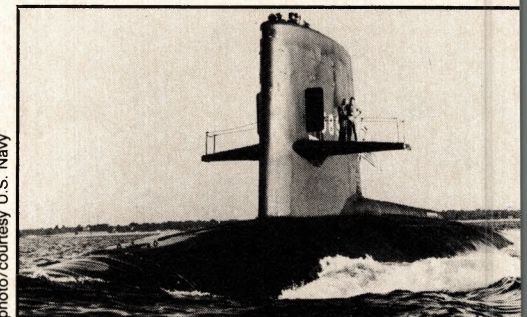
Representatives from all over the U.S. will be in Atlantic City to conduct business, be entertained by esteemed speakers and enjoy the camaraderie of others interested in shipwrecks and diving. For details contact: Charles McKinney, Atlantic Alliance for Maritime Heritage Conservation, P.O. Box 27272, Central Station, Washington, DC 20038.

Scott Jenkins, Elkton, Maryland, reports that his dive club visited a favorite Delaware wreck and brought back some exciting artifacts. The *Cherokee*, formerly the *Edgar F. Luckenbach*, and nicknamed the Gunboat, founded in 1918 approximately 12 miles off Fenwick Island light. Although many artifacts such as the ship's telegraph and portholes were retrieved when she was discovered in 1973, divers are still locating mementos from the past. Dave McFadden turned up an elegant serving platter while Donna May uncovered a large silver plated serving spoon. Later, Larry Keen and his dive team brought up the *Cherokee's* helm. Scott Jenkins found the quartermaster's shaving kit with his name—Herbert Martin Biddle—engraved on a decorative plaque adorning the kit. Inside there was a Gillette razor with its serial number intact and a gold plated metal box for razor blades. It would be interesting, Scott, if you could find out whether or not Herbert Martin Biddle survived the tragic sinking of the *Cherokee* and if he had a family. I'm sure the Gillette Company would be interested in your fascinating story.

Ken Raymond, Baton Rouge, Louisiana, says his scuba club is interested in

(Continued on Page 122)

The *Scorpion* sank in deep water in 1968.



photo/courtesy U.S. Navy

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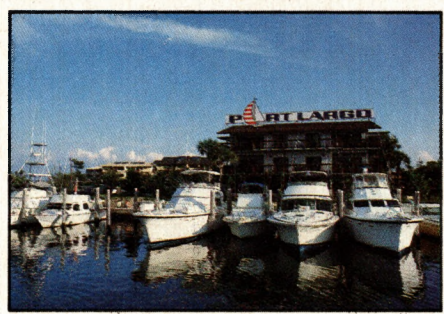
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An aerial photograph of a tropical resort. In the upper left, there's a swimming pool and a lounge area with several lounge chairs. A small boat is docked in the turquoise water. The resort is surrounded by lush greenery and palm trees. The water is a vibrant turquoise color, and the sky is clear.

A collection of Nikonos underwater cameras and accessories arranged on a sandy beach. The items include a Nikonos V camera body, two Nikonos SB 102 and 103 external flash units, a blue inflatable ring, a glass of orange juice with a cherry, seashells, starfish, sunglasses, and various camera straps and mounts.

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DIVING MEDICINE

BY ALFRED A. BOVE, M.D., PH.D.

This month Kaye Sherry Hirsh of Deer Park, New York, offers us some advice on motion sickness. This problem has plagued sailors for centuries and divers are no exception. For many, the best solution is frequent exposure to develop a resistance to seasickness, but other remedies are available as noted below.

IT'S NOT EASY BEING GREEN

There is a reluctance on the part of sport divers to admit they are suffering or have ever suffered seasickness. Divers are tough and sometimes it's difficult to live up to the image.

In *The Human Body*, Isaac Asimov writes of motion sickness, "A steady rocking motion can do it, and to this some people are more susceptible than others. Those who have experienced 'seasickness,' the nausea resulting from the slow, relentless sway of a ship, well know the sensation of the utter worthlessness of life that can be produced. The very word 'nausea,' by the way, comes from the Greek word for 'ship.'"

While it seems more related to the stomach, the problem actually starts in the ears, specifically in the motion-sensing semi-circular canal of the inner ear. The continual pitching of a boat on less than calm water causes the inner balance to go askew and once the easily recognizable symptoms have begun, the only sure cure is cessation of the motion.

Avoiding the problem is the key. It's not easy being green and averting an experience with seasickness is far easier than curing an in-progress bout. Better to take a few precautions than to spend a dive day clutching the boat rail calling to your pet whale Rolf!

For prevention, non-prescription motion sickness medications such as Triptone, Marezine and Bonine generally are considered acceptable for divers and should be taken an hour before the boat trip begins. Some antinauseants are labeled with the warning that they can cause drowsiness, but many divers use them without adverse side effects. [You can take these medications several hours before diving. The nausea relief lasts longer than the drowsiness—F.B.]

A new form of motion sickness medication, Transderm Scop (formerly Transderm-V) has received a good deal of positive attention from the dive communi-

ty. It is a medicated adhesive disc that is positioned behind the ear and releases scopolamine—the same chemical in Triptone—through the skin and into the bloodstream to reduce the sensitivity of nerve fibers in the inner ear. Transderm Scop is available only by prescription.

If you intend to use one of these medicines during a dive trip, consider trying it out on land well before you will need it; different individuals react differently to chemicals and you could experience unexpected side effects that are unacceptable in a dive situation. And if you have any questions concerning your choice of motion sickness medications, don't hesitate to discuss them with your doctor or pharmacist. [Ms. Hirsh's advice, about testing any medicine on land first to detect side effects, is excellent—F.B.]

Recent research with ginger root capsules offers hope that this natural medication may be more effective than commercial motion sickness preparations. Ginger root capsules are available in health food and drug stores.

Fatigue, an empty stomach and alcohol can all assist in inducing queasiness. So, get a good night's rest before a dive trip. Eat a fairly bland meal. Avoid alcoholic beverages and any foods containing large amounts of sugar or salt.

One more suggestion for warding off seasickness: Don't read or do other close and concentrated looking once you're on the boat. You may think you're ignoring the rocking of the boat, but your internal motion sensors are as sensitive as ever.

Although prevention is more sure than cure, if you find yourself in the throes of a seasickness attack, there still are possible solutions to the problem. Fresh air may be the best antidote. Stay on deck, weather permitting, and look at the horizon to give your sense of balance a reference as it gropes for gravity and stability. Taking deep breaths will often help. Ginger, chamomile or peppermint tea may also be helpful.

Early sailing ships were equipped with hammocks in sleeping quarters as a practical solution to space limitations. However, using hammocks instead of built-in bunks has a physiological advantage as well: The hanging hammock provides a gimbal effect, allowing the body in it to remain relatively level to the earth's gravity regardless of what the sea and

the boat are doing. If there's a hammock onboard, hop into it for instant relief.

Again, the only sure cure is elimination of the relentless sway of the boat. But if you're on a charter boat, there's little chance of convincing the captain or unaffected fellow divers that your current affliction is cause enough for an earlier-than-planned return to solid ground. To consider such a request is to risk incurring the wrath of an entire boatload of otherwise reasonable people.

If, in spite of all precautions, you find yourself feeling the early symptoms of seasickness and the boat has *finally* (thank goodness) reached the dive site, get your gear on and get into the water. Being in the water rather than on it will have a calming effect on your ears (where the problem is) and your stomach (where you feel the problem is). The relief you feel will last at least as long as you are in the water. Probably this is not a good maneuver to try when you are in the midst of seasickness upheaval; in any event, if you're in the water, don't take the regulator out of your mouth.

Eventually, with time and many boat trips, your system does adjust and builds up an immunity to the effects of motion.

QUESTIONS/ANSWERS

Question: I am taking the beta blocking drug Lopressor for high blood pressure. Recently, while diving, my fingers turned blue and cold and it was several hours before they returned to normal. Is this owing to the medication?

Answer: Your response to beta blockers is interesting and is known to be a complication of these drugs. We generally avoid prescribing beta blockers to people who have vasoconstrictor problems in their hands, since these tend to become worse on beta blocking agents.

It is interesting that your response to the Lopressor occurred when diving and at no other time. I suppose the cold water induced a vasoconstriction which was aggravated by the Lopressor.

The solutions are straightforward: You can stop the Lopressor (perhaps another medication would be adequate therapy for your high blood pressure); you can dive in warmer water; or you can get a better diving suit. A drysuit will be of some help, but you may still have cold hand problems even with the drysuit. ❧



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Diver's Calendar

August 25 Underwater Treasure Hunt to benefit the Divers Alert Network, at Dutch Springs Quarry in Bethlehem, PA. (Contact: Robert J. Burns, 2200 Bristol Road, Warrington, PA 18967; (215) 343-6970 or Underwater World (215) 672-4180)

August 30-September 2 Montana Dive Council's Dive Fest '85, hosted by Electric City Dive Club at Holland Lake, Montana. (Contact: M. Habel, 927 2nd Ave. North, Great Falls, MT 59401 or call M. Michelotte (406) 452-4845)

September 6-8 Bahamas Free Diving Championships held at the Andros Beach Hotel. (Contact: Bahamas Sports Information (800) 32-SPORT or Neal Watson's Andros Undersea Adventures (800) 327-8150; in Florida and Canada (305) 564-8633)

September 7-8 Second Annual Underwater Fun Festival at Lake of the Woods in Klamath County. Proceeds go to the Klamath County Dive Rescue team. (Contact Sergeant Burns, Klamath County Sheriff's Office, Court House, Klamath Falls, OR 97601)

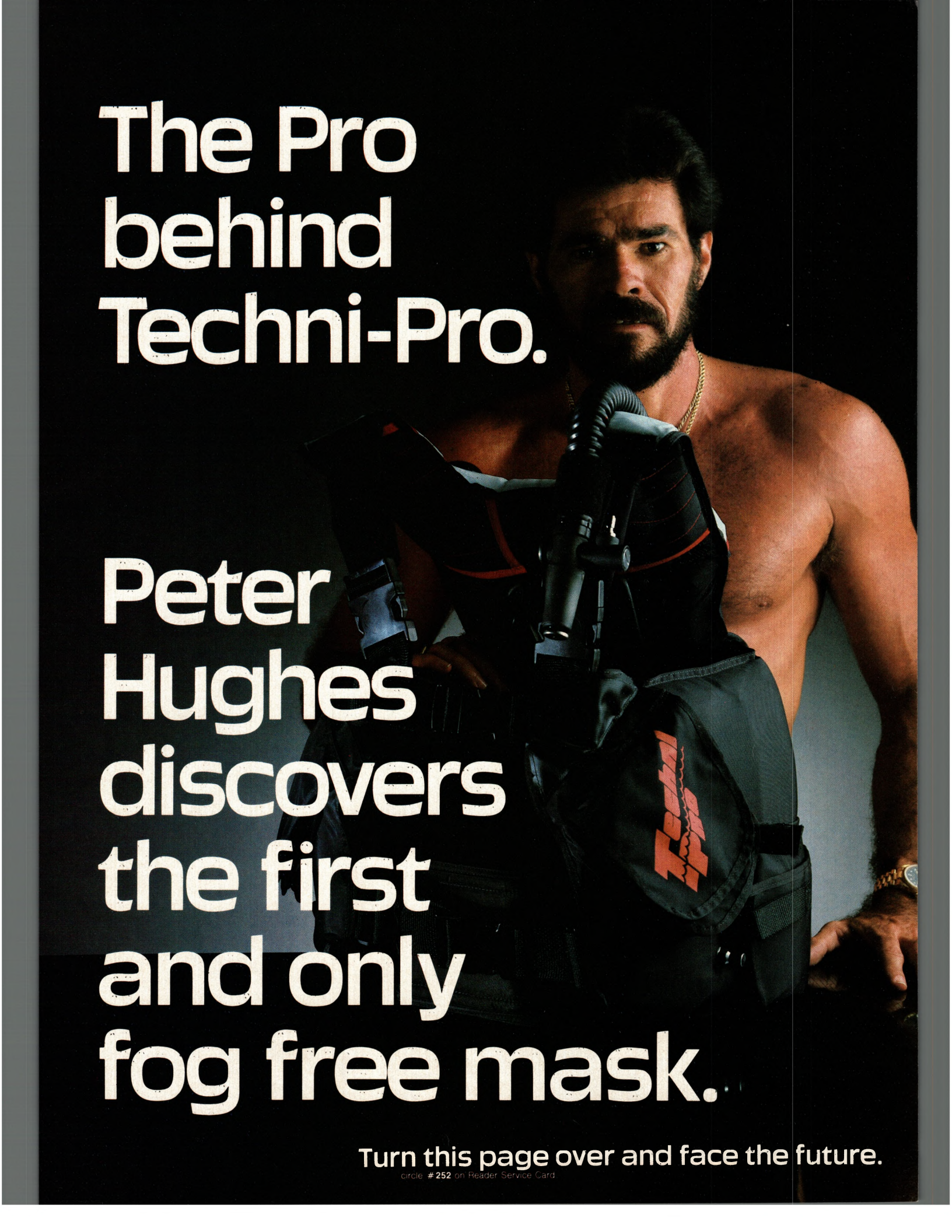
September 7-8 Fifth Annual California Beach Dive Photo Competition. Sponsored by the Underwater Photographic Society of Northern California, the competition will be held in Monterey, CA. (Contact: Kathleen Rosenberg, 15750 Via Colusa, San Lorenzo, CA 94580; (415) 276-5694)

September 8 Sixth Annual Divers Swap Meet, sponsored by the Santa Ana College Dive Club. The event will be held on the Santa Ana College pool deck, 9:00 am-2:00 pm. (Contact: Jim Taylor, 22011-J Rimhurst Drive, El Toro, CA 92630)

September 27 Deadline for entries in the Ninth Irish Open Festival of Underwater Photography, to be held October 5-6 in Limerick, Ireland. Sponsored by the Limerick Sub-Aqua Club. (Contact: P.F. McCoole, Maricopa, Revington Park, Limerick, Ireland)

September 27-29 Wreck Diver Course, near Atlantic City, NJ. Offered by R. Duncan Mathewson. (Contact: Atlantic Alliance for Maritime Heritage Conservation, P.O. Box 27272, Washington, D.C. 20038; (609) 646-5090)

October 5 Diver's Day III conference on underwater education, presented by NAUI, the American Littoral Society and the University of Tampa—to be held at the University of Tampa, Florida. Evening film festival with Stan Waterman. (Contact: Ed Uditis, Box 136F, University of Tampa, Tampa, FL 33606)

A black and white photograph of a man with a beard and mustache, wearing a dark, high-tech diving mask with a corrugated breathing tube. He is shirtless and wearing a dark harness or vest with orange accents. He is looking directly at the camera with a serious expression. The background is dark and out of focus.

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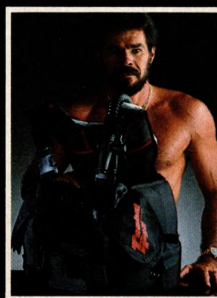
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Technifacts

BY E.R. CROSS



Letters from readers are one of the rewarding aspects of writing this column. It is an equal pleasure for me to share the thoughts of those readers with you. Some readers have requested additional information on publications dealing with ship and small boat salvage. One letter advised me I had used an outdated publication for answers to a question. This Technifacts will be an effort to update previous columns.

U/W ARCHAEOLOGY

As indicated in last month's Technifacts, a letter from Daniel J. Lenihan, Chief, Submerged Cultural Resource Unit, United States Department of the Interior, National Parks Service, Southwest

Region, Santa Fe, New Mexico, contained some helpful suggestions for the preservation of submerged resources. There were also several safety hints for divers who choose to explore the submerged areas in the impounded waters of the many dams in the United States. Pertinent parts of Lenihan's letter follow:

"It is no secret to divers that there are many archaeological sites intact in the impounded waters behind dams in the United States . . . It is not advisable to remove such materials if they are found, for several reasons. First, it is destructive to an archaeological site to selectively remove anything from context. Second, everything but the 'lithic' or stone materials has reached a state of chemical and

structural equilibrium in the underwater environment and will probably disintegrate not too long after removal. Lastly, it is illegal, since the Antiquities Act applies to almost all reservoir impoundment areas. I put that last because the issue isn't usually one of getting caught and fined, which is highly unlikely, but the principle involved. It is illegal to remove artifacts from federal lands for a reason: It disrupts the potential we have for understanding our past."

As Lenihan points out, dam diving can be extremely hazardous. "Historic structures are also present in reservoirs as you well know . . . There is nothing immoral or fattening about visiting and en-

(Continued on Page 126)



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Film Festivals 'n Symposiums

INWARD TO THE SEA

The 14th Inward to the Sea underwater festival will be held on Saturday, November 9. Daytime seminars will include talks on treasure diving, the Diver's Alert Network (DAN), early and recent wrecks and underwater life. The evening film festival will be hosted by Stan Waterman and will feature his latest films.

The symposium will be held in downtown Washington, DC, and will cost \$7 for the daytime seminars and exhibits and \$7 for the evening films. For further information, contact Inward to the Sea at P.O. Box 17502, Washington, DC 20041-0502; (703) 938-5325.

SAN DIEGO FESTIVAL

Dr. Eugenie Clark will appear as featured guest and MC of the Underwater Photographic Society of San Diego's 21st Annual Underwater Film Festival. The festival will be held at the San Diego Civic Theater, 202 C Street, San Diego, on Friday and Saturday, September 6 and 7, at 8:00 pm. Admission each evening is \$8.

In addition to presentations by Dr. Clark, each evening will offer an entirely different program of films and slides.

Tickets will be available at the Civic Theater Box Office; most San Diego area dive stores, including those in the North County and South Bay; Teleseat; and by mail. For mail order, send a check (\$8 per ticket per performance) along with a self-addressed, stamped envelope to the Underwater Photographic Society of San Diego, c/o G.C. Musser, 3943 Centraloma Dr., San Diego, CA 92107. Mail orders must be received no later than August 23 to ensure processing.

CALIF. BEACH DIVE PHOTO COMPETITION

The Northern California Chapter of the Underwater Photographic Society will sponsor the Fifth Annual California Beach Dive Photo Competition in Monterey, California, September 7-8. All photographers are welcome to enter the competition, which begins Saturday morning at 8:00 when they receive their film.

Divers must shoot one roll of film at nearby beaches and submit it by 2:00 pm the same day. The entry fee includes a Saturday evening barbecue, door prizes and awards on Sunday afternoon. For more information write Kathleen Rosenberg, 15750 Via Colusa, San Lorenzo, CA 94580.

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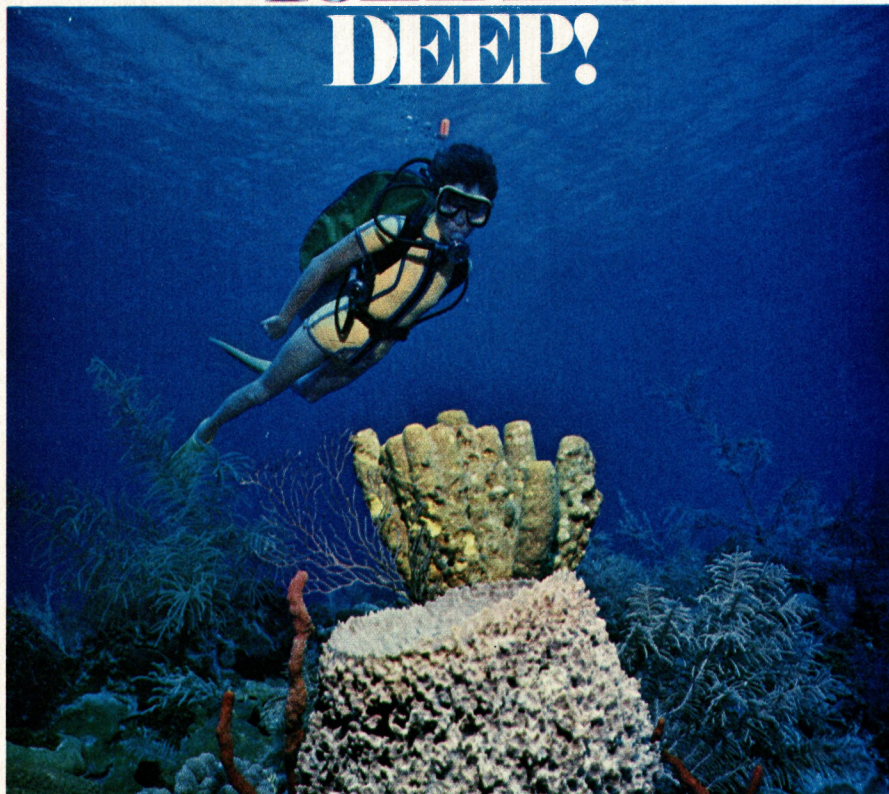


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The Ocean Corporation

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NIGHTTIME TREASURE HUNT

The Citizen's Hose Company Water Rescue Team will host its third annual Nighttime Treasure Hunt at 7:00 pm, August 30 and 31 in the Susquehanna River at Lock Haven, PA. Two member teams will collect tokens (which will earn them points) from the bottom of the river. Point totals after both nights will decide the winners. Prizes will include cash, trophies and scuba gear. Some tokens will be for instant prizes and others will make contestants eligible for prize drawings. Prizes for winners will be given at an awards ceremony/party after the dive on the 31st. Open water certified divers are eligible to participate in the treasure hunt and registration will be open on the first day of the event.

Boat races, sponsored by the local Jaycees, will be held both days and there will be a carnival and art exhibit.

For information contact Citizen's Hose Company No. 5 (Water Rescue Team), 415 Bellefonte Ave., Lock Haven, PA 17745, or call Howard Wooding (717) 748-3593.

IKELITE CLINICS

Ikelite Underwater Systems has completed the third in a continuing series of clinics for the repair and maintenance of Ikelite equipment. The following dealers were represented at the clinic at the Ikelite factory: Rec Diving, Royal Oak, MI; Divers Mast, Jackson, MI; Swim King Dive Shop, Rocky Point, NY; Creative Whale, W. Chicago, IL; Bonaire Seaphoto, Habitat, Bonaire; Hydro Sports, Bismark, ND; Northern Kentucky Diving Center, Florence, KY; Exuma Photo Center, Exuma, Bahamas; East Coast Diving Service, Morganville, NJ; Lexington Dive Shop, Lexington, KY; Diving Center of Rochester, Rochester, NY.

Future repair clinics will be announced and authorized dealers may contact Ikelite for further information.

LA UPS PHOTO COMPETITION

The Underwater Photographic Society of Los Angeles is sponsoring its 23rd International Underwater Photographic Competition. Entrants from all around the world are invited to compete with prints and slides in five categories. The deadline for entries is October 19. A plaque and \$50 will be awarded for first place in each category, with a plaque for second place and a medal for third place. A plaque and \$100 will be awarded for best of show.

Further details and competition rules can be obtained by writing to the competition chairman, Lance Bennett, Underwater Photographic Society, 3922 Emerald St., Suite 38, Torrance, CA, 90503.

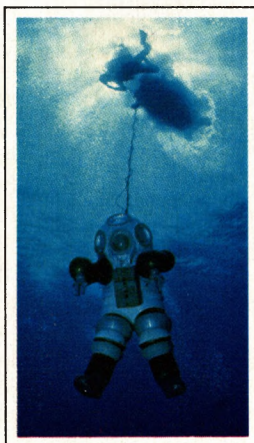
It's Maui. A woman hangs suspended in the Pacific depths. Eye to eye with the great humpback whales of Hawaii.

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But not all her fame has been achieved submerged. She has lectured in thirty countries.



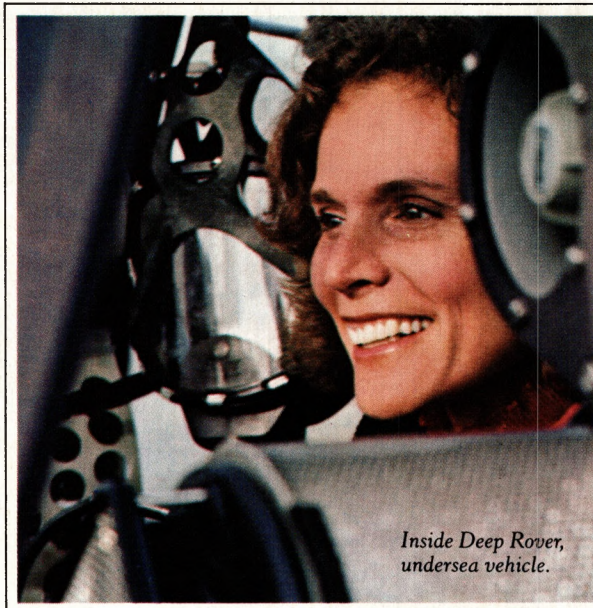
Descent off Hawaii in the JIM diving suit.

Written more than fifty articles. Authored the National Geographic book, *Exploring the Deep Frontier*.

Though she embodies the adventurer spirit, Dr. Earle is equally committed to the

preservation of the seas. And ardent in her defense of all life within them.

Today, she searches out methods of ocean conservation.



Inside Deep Rover, undersea vehicle.

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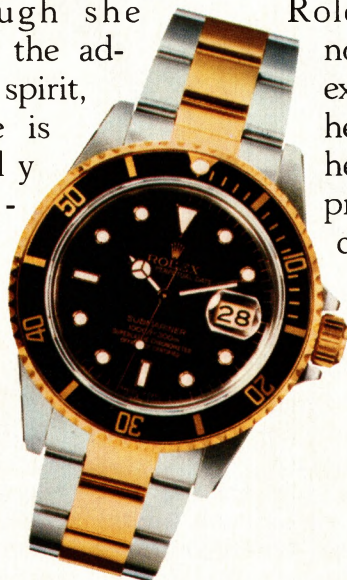
That she relies on a

Rolex is not un-

expected. Dr. Earle asks no less of her timepiece than she does of herself. Performance must be predictable in unpredictable circumstances. And high purpose must always be artfully executed. The accomplished make no compromise with excellence.



Confrontation with a Humphead Wrasse in the Red Sea.



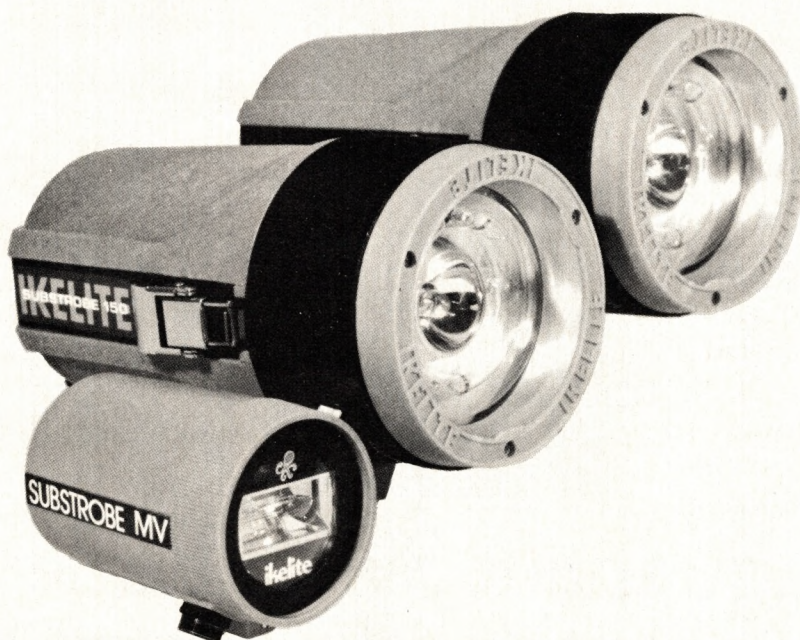
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TTL AUTOMATION

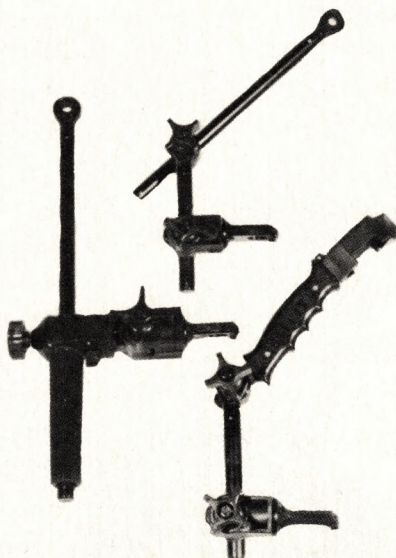
IKELITE SUBSTROBES offer automatic Through-The-Lens (TTL) flash exposure control when used with the Nikonos V camera. The TTL system automatically compensates for distance, f-stop, extension tubes and filters. SUBSTROBES offer additional features such as multi-power settings, fast recycle, high intensity output, slave mode, built-in modeling light and ultra-wide coverage. With the addition of TTL automation, no other underwater strobe system offers the features and dependability of an IKELITE SUBSTROBE.



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With the optional Flash Monitor, a remote auto sensor, all SUBSTROBES offer Non-TTL auto exposure control with any underwater camera system. The Monitor will automatically produce

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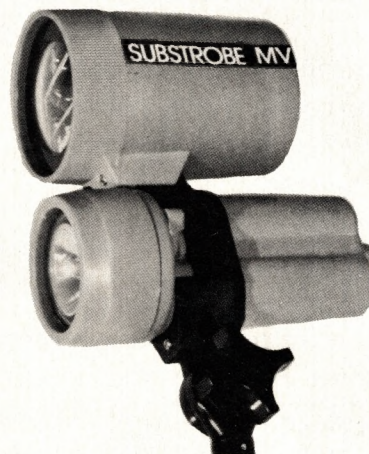


ARMS

The Quick Handle is especially suited for the larger SUBSTROBES. It features an 18 inch adjustable arm and quick release for easy hand holding. The Strobe Arm and Strobe Handle are more suited for the smaller SUBSTROBES. They are available in single and double section models for added versatility and both accept the Lite Bracket.

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OPTIONS

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Compare, and it is easy to see why SUBSTROBES are #1.

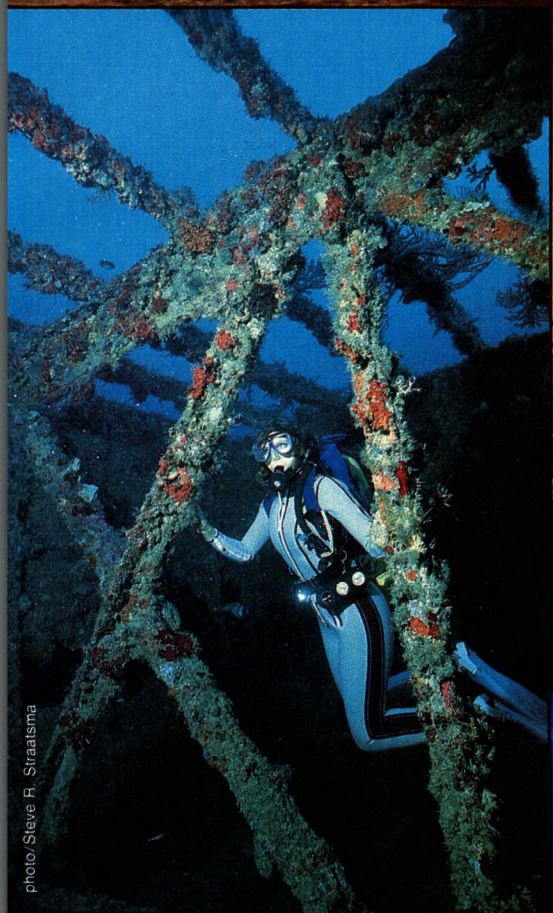
Contact your local Ikelite Dealer or send \$1.00 for catalog.


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FLORIDA'S WEST COAST

TARPON SPRINGS TO MARCO ISLAND



photo/Steve R. Straatsma



Florida's West Coast offers many diversions. There are amusement parks and tourist attractions such as Tarpon Springs (sponge diver below). Clearwater (above) is famous for its beaches. Facing west, the coastline offers beautiful sunsets. Diving includes exciting wrecks like this barge (left).



TEXT AND PHOTOGRAPHY BY STEVE LUCAS

The sea monster watched warily as we entered its domain. Quietly allowing the water to pass through its gills, its enormous body remained motionless against the wreck of the old mine sweeper. It was six feet in length and weighed at least 400 pounds. I cautiously extended my camera toward it, not quite knowing if it would permit my intrusion.

In rapid succession my strobe fired until I had inched close to its gaping mouth. Feeling somewhat like Jonah about to be swallowed by the proverbial whale, I found myself gazing down the gullet of a fish that seemed large enough to devour camera, scuba gear and me.

Suddenly, I realized my partner had slipped from her perch on the wreck above the jewfish. His body shuddered and I expected to be trampled in the on-rush. Instead, he seemed mesmerized as she gently stroked his side, then proceeded to climb upon his back as if she were a mermaid about to ride into the haze. The male jewfish seemed pleased with her attention.

Milton immediately became a celebrity attraction to divers in the Gulf of Mexico. In later visits he would learn to eat hot dogs and permit almost anyone to rub his side. He became our friend, a mistake which later proved to be fatal.

Such encounters with these large, often trusting fish are not considered uncommon along Florida's West Coast. From Tarpon Springs to Tampa, Clearwater, St. Petersburg and down to Marco Island there are hundreds of long, low, colorful reef ledges as well as more than a dozen popular wrecks prowled by these monstrous fish. Often found in large groups, they are known to grow to well over nine feet in length, weigh as much as 1,000 pounds and are thought to live hundreds of years.

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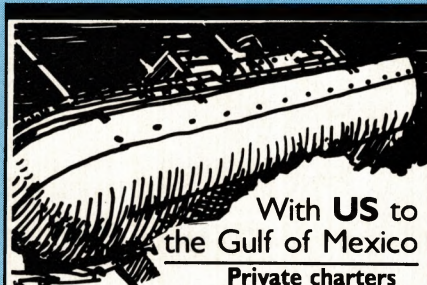
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FLORIDA'S WEST COAST

The Sun Coast's several hundred mile long strand of wide, pure white beach, is one of the most popular vacation areas in Florida. It is an excellent area for families with non-diving members because hundreds of top quality hotels and many of the most popular attractions in the state are found here.

One, Busch Gardens' Dark Continent, is built around Tampa's Busch brewery. A 300 acre park, it lets you visit many parts of the world by simply walking a short distance. Morocco, with its belly dancers, Timbuktu's leaping dolphins, the veldts of the Serengeti Plain, a Nairobi train station and the Trans-Veldt railroad seem transplanted. In the Congo you see pure white tigers then dare yourself to challenge the unknown. Heart racing excitement awaits at the log flume on Stanley Falls, the Scorpion or on the Pythons with its upside-down, twisting, careening, breath-holding roller coaster turns. The Congo River Rapids and jungle are nearby and waiting to be explored. Out on the plains you glide overhead in an enclosed monorail. If you dare, get really close via an open car railroad to see thousands of wild animals. Elephants, giraffes, zebras, elands, gazelles, cape buffalo and hippos live as naturally as in their native habitat.

Tampa has many other attractions: Ybor City, the old Cuban district with its cigar factories, Latin shops and Spanish flavor; Adventure Island water theme park, where a family can slip and slide for a day. Or, you can sun the day away at the beaches of Fort Desoto State Park.

A short drive north is an old Greek sponge fishing village, Tarpon Springs. Once a thriving industry, sponges were harvested by the hundreds of thousands and sold for household and commercial uses. Today, you watch a diver put on his leather suit, lead weighted boots and copper helmet before going down to retrieve a sponge from the seafloor.

At St. Petersburg's botanical wonderland, Sunken Gardens, over 7,000 varieties of exotic plants and flowers represent every tropical region of the world. Fifty thousand flowers are planted annually to create one of the most beautiful scenes in the state. You walk through a giant aviary in its midst, with hundreds of wildly colored birds, including parrots and talking macaws.

Clearwater's fame is its beaches. More than 100 yards wide in places, they are talcum white and a favorite place for residents to gather each evening to feed the swooping seagulls while watching a fiery sun slide into the sea.

In Sarasota, the Ringling Museum estate of late circus magnate John Ringling houses the finest exhibit of rare art in Florida. Nearby, the Museum of the Cir-

cus and winter home of the Greatest Show on Earth are open for visits.

Venice beach is popular for collecting shark fossils. By sifting through the sand you are likely to uncover dozens of serrated, prehistoric mega-denizen teeth. Some as large as two and three inches have been found just offshore.

At Fort Myers, visit the winter home of Thomas Edison. In his adjacent laboratory you can see many of the items he invented. One of his light bulbs still burns. For collectors, the world's largest shell shop, Shell Factory, is just north of the city. If you prefer to collect your own, the nearby islands of Sanibel and Captiva are some of the best shelling beaches in the world. At Cape Coral's beautiful water-light show, Waltzing Waters/Aquarama, there are many musical fountains, water ski shows and dancing porpoises.

In addition to its several hundred foot long public fishing pier, Naples has the 200 acre Jungle Larry's African Safari Park with exotic animals and trained chimpanzees. The city is at the western edge of the Florida wetlands and the Everglades National Park.

As a dive destination, the Sun Coast has been one of the last in Florida to bloom. Although visibilities often do not rival those found in the Keys and water temperatures are quite cool in winter, the dive sites are fun and interesting. Colorfully encrusted with reddish-orange and large sponges, these reefs do not support the hard corals that are found in the state's more tropical waters. Some reefs are close to shore, but usually have very limited visibilities. The better reefs are consistently well out in the gulf.

Wrecks are common along the coast near Tarpon Springs. In 25 feet of water a World War II **Navy Hellcat** fighter plane remains relatively intact. Its engine and prop stand upright approximately 20 feet away. A popular and unusual photo dive, plane wrecks are rarely found in diveable waters. Not so here. Another, the 50 foot deep **Bomber Wing**, has its wings, fuselage and all four engines still somewhat intact. Large schools of silver spadefish often swim along its encrusted surface.

In 78 feet, a 105 foot ocean-going **Tugboat** lies upside down. Its gantry crane trapped underneath, it sticks some 50 feet out to the side. The complete chassis of an automobile sits alongside on the sand. On the opposite side, a four wheel trailer lies with its wheels still free to spin, after 30 years underwater. The tug's two barges also sank and are approximately two miles away.

A number of ledges are found in the area. **Harry's**, a long, weaving 50 foot deep ridge of coral rock, sometimes springs up to eight feet from the sand. Large blocks of limestone are broken from the main rift leaving many cracks and potholes that are homes to fish, stone crabs and lobster. **Rock Gardens** has large basket, ruby and finger sponges covering its face. Shallow, it is

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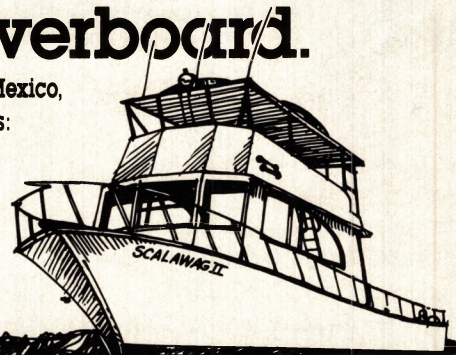
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FLORIDA'S WEST COAST

popular with free diving spearfishermen.

Wrecked ships are also found near St. Petersburg and Clearwater. The **Rube Allyn** sits near a popular Clearwater Beach site. A Navy LSM sunk as an artificial reef, it is in 50 feet with visibilities averaging 15 to 50 feet. As with most of these wrecks, thousands of silvery baitfish and hundreds of barracuda swarm over its decks.

Twenty-four miles off Ft. Desoto are two wrecks. Within a mile of each other, one, the **Sulphur Barge**, lies upside down in 75 feet of water. Swarms of baitfish, hogfish and snapper surround its decks. The remains of its cargo, black sulphur, is scattered over the seafloor.

Nearby, the **Gunsmoke**, a wooden and steel hulled shrimp boat, was sunk by its crew to avoid capture on smuggling charges. She was loaded with marijuana when they pulled the plug and let her go to the bottom as the Coast Guard appeared on the horizon. The crew vanished. Originally on a well-known site, it surprised everyone by disappearing. Apparently, as the pot became saturated with seawater it began to swell and refloated the hull. The wreck rose from the ocean floor and the currents carried it more than a mile before it sank again.

Thirty-seven miles west of Egmont Key lies the large barge, **Mexican Pride**. Approximately 300 feet in length, it sits upright in 125 feet of water with its deck at 90. Six and seven foot jewfish sulk in its holds. Dark and very silty, it is sometimes penetrated by experienced wreck divers, but its lower decks should be avoided. Several 15 by 20 foot anchors are still

SUN COAST INFORMATION

For additional information on the Sun Coast write:

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mounted on its side.

The most popular wreck, the 110 foot Coast Guard buoy tender **Blackthorn** is 22 miles off Clearwater Pass. Now in 78 feet of gulf water, it tragically sank four years ago in Tampa Bay when struck by a freighter. More than 20 crewmen died. Refloated, it was towed to an artificial reef site and again sunk. Lying on its side, it is home to large schools of amberjack, barracuda, an occasional jewfish, grouper and clouds of baitfish. The wreck cannot be entered safely and is rapidly deteriorating. Sponges, soft corals and tunicates grow on its railings and turtles are often found beneath its superstructure.

Eighty to 100 miles to the northwest is a popular two and three day summer dive destination. The **Middle Grounds**, a large open water gulf reef, begins in 50 and drops to 130 feet and deeper. Cracks and fissures scar its surfaces and angelfish, butterflies, hordes of snapper and 20 to 50 pound grouper are common. Visibility is often as much as 120 feet and sightings of pelagic sharks are common. A gulf oddity, its ocean holes are locally called jack holes because of the numerous amberjack found inside. Usually found 30 to 40 miles offshore, they are actually drowned sink holes similar to those found all around Florida's freshwater springs. At least six have been dived near St. Petersburg. The shallowest start in 85 feet with deeper ones at 110 feet. Forty to 80 feet across, they drop vertically to depths of well over 200 feet. Their upper lips are heavily populated with large grouper, red snapper, 'cud and a large variety of tropicals and turtles. Visibility is good to 130 feet, but then it and water temperatures drop. Beneath the thermocline the water is stagnant.

To the south, near Bradenton and Venice, the ledges continue with one exception. Here the large jewfish become much more common. In a 1979 SKIN DIVER article, the area south of here was christened **Jewfish Country**.

Many popular sites are found both near and well offshore. The **Barge and Hopper, Venice Ledges** and **Sugar Barge** are all frequently dived. The most popular and exciting is the wreck of the **Bayranto**. Sometimes called the London because her home port registry was once written in raised letters across her stern, she is 30 miles out from Venice. At a depth of just over 100 feet, she sank in a 1919 hurricane while carrying a full load of grain. Split in half, her hull lies upside down on a desert seafloor, bow and stern sections neatly divided. Large schools of jack and an occasional shark are seen above her keel. Looking like two enormous submerged barns, she offers perfect cover for monster jewfish. Before her prop was removed I once saw and photographed an enormous jewfish lying just above one of the nine foot blades. Equally as large, the animal was later estimated from the photographs to weigh more than 1,000 pounds.

At Naples, the reef breaks have large numbers of delicious stone crabs and an occasional lobster beneath their ledges: favorite foods of the jewfish. **Teacup**, a horseshoe shaped reef, often has a dozen or more searching its crevices for these delicacies.

One of the most exotic Naples/Marco Island dives is the **Black Hole**. Twenty-seven miles southwest of Gordon Pass, this large sink is 100 feet in diameter and 65 feet deep to its rim. Inside, it takes on an hourglass shape and widens as it descends. It has a maximum depth of more than 200 feet and marine life is plentiful down to the thermocline with both jewfish and turtles commonly seen.

Between Naples and Ft. Myers Beach is the wreck of the **Old Mine Sweeper**. Hundreds of barracuda swarm above her grave, while on the sand her once powerful engine shaft lies almost buried. At its end a now useless four bladed brass

prop sits, one blade completely buried. This was where we first met Milton.

Regretfully, he no longer lives there. This is a popular spearfishing site and some unthinking divers illegally use explosive powerheads to kill the gentle, trusting giants. We searched for him on dozens of dives, then found out Milton had become cat food.

It seemed a shame to lose such a magnificent friend. Those who knew him could not comprehend any gain in his killing. With an abundance of game fish to hunt on these 200 miles of brightly colored reefs, it seemed unforgivable to destroy him in the name of sport.

Fortunately, the majority of divers along the Sun Coast have a deep respect for this territory with its wrecks, rich reefs and friendly fish. Respected charter captains enforce game rules and persuade divers to take the initiative in protecting the inhabitants of these sites. 🐠



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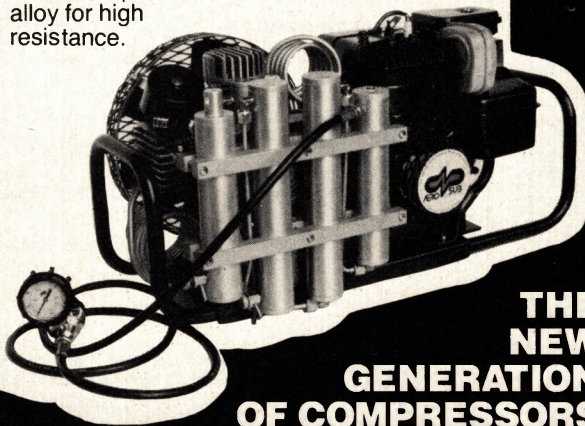
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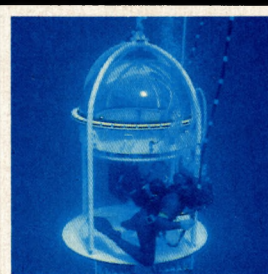
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SEAQUEST SEA VEST II



MULTI-
FEATURED-
MULTI-
ADJUSTABLE

BY JIM WALKER

Combining the best characteristics of a jacket-style BC with the best of a horse-collar type, the hybrid Sea Vest II offers excellent flotation and comfort while maintaining a low profile for reduced drag in the water. SeaQuest designers have included a host of unique adjustment features that allow most any diver, on any day, to custom tailor the Sea Vest II to his/her body shape and exposure garment. Wearing a thick drysuit? No problem. Gained (or lost) a few pounds? Relax. The Sea Vest II can be set up quickly to fit comfortably.

With a tough, 420 denier nylon outer bag and a 15 mil thick, polyurethane inner bag, the Sea Vest II has a sleek, attractive form and the durability divers demand. Sewn-in piping and color accent panels complete the look. With large buoyancy chambers at the sides of the torso, the Sea Vest maintains a low profile as it extends up over the chest and behind the neck—allowing a comfortable angle of flotation at the surface. It adapts easily to the shape of the torso.

Three adjustable nylon webbing straps position the panels of the Sea Vest horizontally. Two, one inch wide straps with snap-in plastic buckles secure the front panels. A unique, two inch wide lobe adjustment strap passes through the plastic backpack and secures the rear of each panel. It closes with Velcro® and adjusting this strap allows the diver to position the panels snugly against the sides of the torso. This keeps the Sea Vest (and thus the diver's body) from floating away from the backpack. The collar of the Sea Vest is secured to the top of the backpack by a wide band of reinforced nylon, which closes with Velcro. Additionally, a one and one-half inch wide webbing strap is



photos/Bonnie J. Cardone

The Sea Vest II has a space saving, collapsible tank band and a nylon webbing carrying handle.

sewn to the collar strap. It serves as a carrying handle. The tank band is flexible nylon webbing, which can be flattened so the Sea Vest can be packed in a gear bag. It closes with a snap-over Delrin buckle and is secured with Velcro.

One of the most comfort-inducing features of the Sea Vest is the wide, padded body band. It closes with a Velcro overlap and takes the place of a backpack waist strap. The body band offers several benefits: (1) It can't be confused with a weightbelt buckle in an emergency. (2) It works with the design of the BC and backpack to spread out the weight of the tank comfortably around the top of the hips when out of water. (3) Through a one inch wide, adjustable strap, which weaves between the body band and the inside of the BC panels, the band forms additional anchor points that hold the panels in close. (4) The body band can be inverted to change its height in relation to attachment to the panels. This adjustment accommodates varying torso lengths. Shorter divers won't find the band too low and taller divers won't find it across their chest. (5) The body band

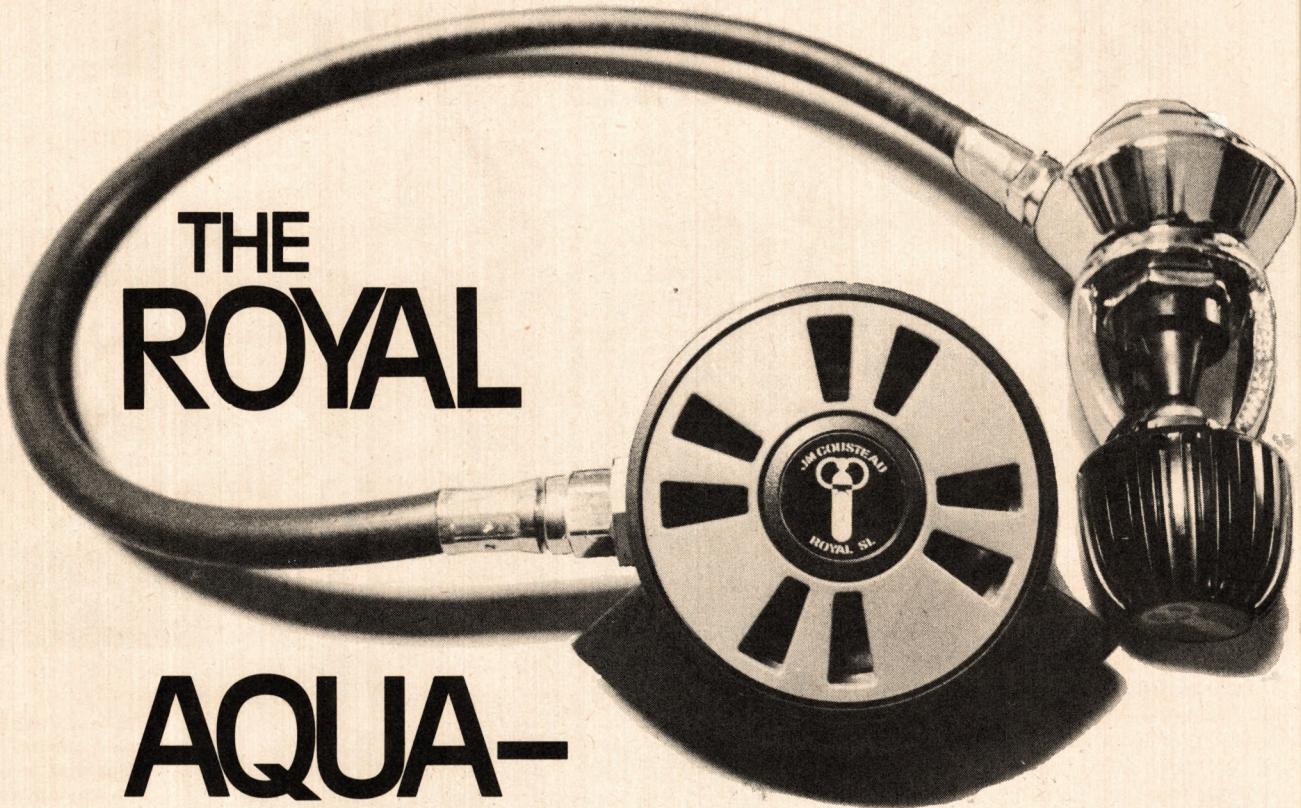
comes in a five inch wide version in four lengths and in a narrower version in three lengths. When purchasing the Sea Vest II the diver picks the band right for him/her.

In addition to comfort features, the Sea Vest II offers a full complement of extras: It comes with a combination rapid exhaust/low pressure inflator; Velcro closing hose guides; mesh drain panels; a large pocket on the left side (with a key clip and C-card pouch inside); optional CO₂ inflator; and Versa Pocket on the right side (with overpressure relief valve inside). Through an ingenious use of Velcro, the Versa Pocket can be set up as a normal pocket or as a convenient slot for an octopus second stage. In the latter, a bright green tab guides your buddy to the octopus in an emergency.

The Sea Vest II retails for \$325 with 25 gram CO₂ and \$312.50 without—in both large (30 pounds of buoyancy) and medium (27 pounds). It comes in a gray/charcoal combination with red accents.

See the Sea Vest II at your SeaQuest dealer or contact: SeaQuest, Inc., P.O. Box 1397, Carlsbad, CA 92008; (619) 438-1101. 

SDM SPECIAL SERIES ON REGULATORS



THE
ROYAL

AQUA-
LUNG SL

TEXT AND PHOTOGRAPHY BY ERIC HANAUER

When U.S. Divers introduced the Royal Aqua-Lung in 1982, this top of the line regulator represented several breaks with tradition and an entry into the ultra-high performance field. Although two of the company's regulators had scored among the top seven in the Navy Experimental Diving Unit's ratings, U.S.D. wanted to develop one that would deliver high airflow rates under the most extreme conditions without sacrificing reliability. The resulting regulator was a balanced system rather than a pilot system. The public's strong acceptance of the Royal attests to its success. Now, it has been improved with a new second stage that allows the diver to control its sensitivity.

Why is a control necessary? Ultra-high performance regulators are so sensitive they sometimes exhaust bubbles when the diver doesn't want them to. High airflow is needed only when working hard at

depth. But when you tilt your head back to photograph a model posing against a backlit surface, the last thing you want in the picture is your bubbles. Yet the extra side exhaust valve of the Royal trickled them in certain positions. This problem has been eliminated in the new Royal SL. A rotating cover, manually controlled by the diver, shuts off the biaxial side valve to prevent unwanted bubbles. U.S.D. recommends the valve be closed except for deep diving or heavy exertion.

Although the exhaust valve shutoff is the major change, there are enough new features to warrant the regulator's new model designation. The second stage demand valve has more mass to close it faster. An improved exhaust tee decreases exhalation resistance. The first stage now has a shiny chrome finish instead of the satin finish of the original. And, the slotted second stage cover no

longer looks like an old-fashioned telephone dial.

All of the favorable features of the original Royal are retained in the SL. Its first stage is a balanced diaphragm design, which seals all moving parts from contact with the water. Shaped like a miniature Apollo space capsule, it is actually an improved version of the old Conshelf first stage. The Conshelf had attained a reputation as a bulletproof workhorse; a regulator that kept operating smoothly even when not properly maintained. I had used mine for three summers in the Red Sea with no problems, despite many days of diving without even a freshwater rinse. Using the same basic design, the Royal's larger size and different shape accommodates a massive air reservoir for improved airflow characteristics. Its diaphragm bends and flexes with water pressure and demand from the second

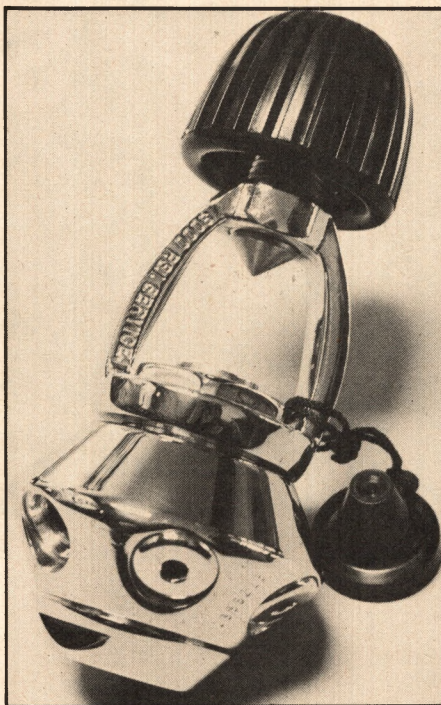
stage. Movements of the diaphragm are transmitted to the high pressure seat by means of a flow-through piston. The first stage is balanced by allowing air at intermediate pressure to travel around the piston pin, through the hollow high-pressure seat and into a balancing chamber in the spring block. This allows the first stage to maintain a stable intermediate pressure of approximately 140 to 150 psi above ambient.

Air is delivered to the second stage through a wide hose—with twice the area of conventional hoses, to accommodate the high airflow. This wider hose, combined with the larger reservoir, results in a more immediate response to breathing demand. The four low pressure ports are one-half inch in diameter, compared to the three-eighths inch that is the industry norm. But an adapter is included to enable it to accept the smaller hoses for low pressure accessories. Additional adapters for hoses supplying BCs or drysuits can be obtained at your Aqua-Lung dealer. The single high pressure port is seven-sixteenths inch, a current industry standard. An adapter is also supplied that will fit older HP hoses.

One of the secrets of the Royal's high performance is the oversized silicone diaphragm in its second stage. Curvature of the diaphragm increases surface area, which increases sensitivity. Unlike neoprene, silicone doesn't become stiff with age or in cold water. It retains the same flex characteristics in temperatures ranging from -65°F to +460°F. A venturi shield creates a partial vacuum in the breathing chamber, which helps keep the air flowing once the diaphragm gets the flow started.

The redesigned second stage is still made of Rovel®, an impact and corrosion resistant polymer. It not only feels light and comfortable, but looks good. Underwater photographers will like the non-reflective black case and the cover choice of blue, yellow or black. Brian Miller, U.S. Divers' director of customer service, demonstrated its toughness by beating it with a hammer. Although such treatment is neither typical of his service nor recommended, the Rovel case showed no dents. A conventional brass second stage couldn't tolerate that sort of abuse.

Aside from the new slotted cover, a clear silicone mouthpiece distinguishes the new Royal SL. The old mouthpieces were also silicone, but black. A new exhaust tee fits over a flange and eliminates screw posts, which had increased air-stream turbulence in the old model.



The Aqua-Lung Royal SL first stage (left) offers a large air reservoir for improved air flow. The second stage (above) is made of an impact resistant polymer. It has a clear silicone rubber mouthpiece and a rotating cover on the extra exhaust valve at the side.

Those divers who bought the old Royal haven't been forgotten. Your authorized Aqua-Lung dealer can upgrade your regulator to the new specifications by installing an SL Conversion Kit. This includes a new cover, case, exhaust tee and second stage parts. When finished, your second stage will look like the SL and will perform like it too, all for only \$24.

For use in extremely cold or polluted waters, an environmentally protected version of the SL is available, at a cost of \$20 more than the standard version. Called the Royal SL Supreme, it has an additional chamber on the first stage, filled with silicone oil. A secondary diaphragm in this chamber senses pressure, which is then transmitted through the oil to the primary diaphragm. Thus, no ice or water contacts the primary diaphragm.

We tested the Royal SL at Catalina Island. Using a Sherwood Y-valve, it was hooked up to the same tank as a Royal, to allow comparison of the new version with the old one. The new one proved superior, both in breathing ease and control of freeflow. I wasn't able to out-breathe the SL, at 100 feet under hard swimming and simulated panic breathing conditions, even with the side valve closed. When it was opened, I received an extra surge of air, at even higher volumes. It was more than I needed and more than

the old Royal. And, there was no water leakage in any position. This included standing on my head and doing 360 degree somersaults.

When the second stage was removed from my mouth with the mouthpiece up, it would freeflow until it was turned downward. This also occurred when it was dropped into the water on the surface, but it stopped when the mouthpiece sank to a vertical position. Therefore, the SL will offer no problems to divers who like to toss their tanks off a boat and don them in the water.

On the critique side of the ledger, I found the second stage hose too short. According to marketing manager, Bob Leite, longer hoses should be available by the time you read this. Aesthetically, I prefer the original satin finish of the Royal's first stage to the SL's reflective chrome. Miller says the new finish is more durable.

The JM Cousteau trademark indicates U.S. Divers' top of the line products. Compared to its predecessor, the Royal SL offers the best of both worlds: easier airflow and virtually no freeflow. Only time will tell if it has the durability of the Conshelf, but it's off to a promising start. You can see it for yourself at your U.S. Divers dealer, at a suggested retail price of \$327. 



THE SR-2000

Improved Version Puts Out Twice As Many Flashes

TEXT AND PHOTOGRAPHY BY GERI MURPHY

The SR 2000 underwater strobe is a little bit like the original Volkswagen Bug. Ten years after its initial introduction, the strobe looks the same, performs like a champ and is still remarkably popular. The original concept has withstood the rigors of time and consumer use: The SR 2000 remains the world's smallest and one of the most powerful underwater strobes. It puts out the brightest flash for its size/weight ratio.

The SR 2000 is produced by Sonic Research, a small electronics manufacturing firm in San Diego, California—headed by designer/president Gary Sokol. An avid underwater photographer himself, Sokol has dedicated his genius-level abilities to the design of a compact strobe that would operate easily underwater. The key to his success was miniaturization of electronic circuitry and components. He was a decade ahead of the U/W photographic industry. Today, the SR 2000 remains distinctive in size, appearance and performance.

I first fell in love with the SR 2000 strobe when Jack McKenney published the first user report in the June 1976 issue of SKIN DIVER. I have been using it ever since and "my family" of SRs has grown to four units. The little cylindrical wonders pack easily in a camera carrying bag and are easy to charge nightly and use throughout the day.

I do a lot of macro and close-up photography and find these strobes ideally suited for multiple camera use. I often rig two Nikons cameras with an SR 2000 in each shoe mount and handhold an SR 2000 Cordless Slave for multi-flash lighting. The miniature size of these units makes this possible and safe.

Before reporting on the new improvements in the SR 2000, let's summarize its basic design features. First, it is definitely the smallest power strobe on the dive market today. It is a cylindrical tube measuring 2.3 inches in diameter and 5.5 inches long. It will literally fit inside a 16 ounce water glass. The strobe weighs less than 15 ounces out of the water and is just slightly negative underwater.

The front of the cylinder contains a flat plexiglass port, flashtube and reflector and a threaded ring for a filter. The rear of the cylinder is equipped with an on/off switch, charging cap and coiled flash-cord connector. There is a small mounting block on the bottom of the cylinder with two threaded holes for either a one-quarter or three-eighths inch mounting screw. There are no screws, bolts or clamps holding the unit together. The entire electronics package slides into the rear of the cylinder and is sealed by a dynamic O-ring that is part of the rear wall.

The interior of the SR 2000 is equally simple. It has a miniaturized electronic circuit powered by two ni-cad batteries. There is enough power to shoot pictures all day. It can be fully charged overnight.

The performance of this strobe is a dream. It recycles in three to four seconds. The angle of coverage is 70 degrees—wide enough for macro, close-up and 28 mm fish photography. If you want to go wide angle, Sonic Research offers a special tandem mounting plate for hooking up twin SRs pointed on a slight V-angle for broader coverage. The amazing thing about the SR 2000 is its intensity. It has a guide number of 60 with ASA 100 film. I have been able to consistently shoot all of my macro work at f22.

These basic features have been part of the SR 2000 since its inception. However, designer Sokol has been constantly developing and testing the strobe over the years. It has undergone evolutionary improvements and now has more than 30 accessories ranging from filters to flash arms and tilt-head adapters.

The 1985 version of the SR 2000 is perhaps a more radical stage of development. While, in appearance, it is the same small white cylinder, it is a whole new ball game inside. Sokol has completely replaced the electronic package with an advanced modular design circuit board. All components are rigidly mounted on a single baseboard for anti-shock protection. Wiring has been reduced to an absolute minimum, thus avoiding possible breakage. Sonic Research can usually give one day service on repairs and all products built by the company have a one year warranty.

The new SR 2000 utilizes a power saving circuit and two high grade GE ni-cad batteries that are commercial grade matched cells. This new package will deliver up to 300 flashes per charge—a 100 percent increase over early SR models.

Another feature of the new SR 2000 circuit board is its two mode options. Every unit now contains a built-in slave sensor mounted right in the flashtube reflector. It can be switched from primary strobe to slave with a simple twist of the knob. The sync and slave modes operate independently of each other.

Sonic Research is now using a different battery charger. Charging time is 15 hours for a full charge and three hours for a 50 percent charge. The new SR 2000 features two different signal lights for cir-

cuit function. The ready light window is to the left of the on/off switch and is an amber colored diode. To the right of the switch, and next to the charging port, is a smaller window that glows red while the strobe is being charged. This light indicates the batteries are accepting the charge. One important point worth mentioning is that the new SR 2000 battery charger is equipped with a sub-mini jack and cannot be used with early strobe models. The new circuitry requires a different charging rate of 7.5 volts at 200 milliamps, but is still charged from a standard 110-120 volt electrical outlet.

Another neat feature added to the new SR 2000 is the repositioning (forward) of the threaded filter ring so that it will accept a 55 mm Cokin adapter ring. Now, the photographer can slip two and five-eighths inch square filters in front of the

strobe underwater, without trapping bubbles or cross threading.

Sonic Research has developed a special system of three wide beam diffusion filters of different densities that will fit the Cokin mount. The angle of coverage can be increased from 5 to 20 degrees using these filters.

The Cokin filter holder is non-corrodible plastic and will accept up to three different filters stacked. A diver could put a warm-up filter behind the wide angle filters to use different lighting ratios for multiple flash. This is a tremendous breakthrough for the experienced underwater photographer who wishes to develop advanced lighting techniques.

After using the new SR 2000 strobe, I am convinced it is a significant improvement over the previous models. You get a whole lot more flashes per battery

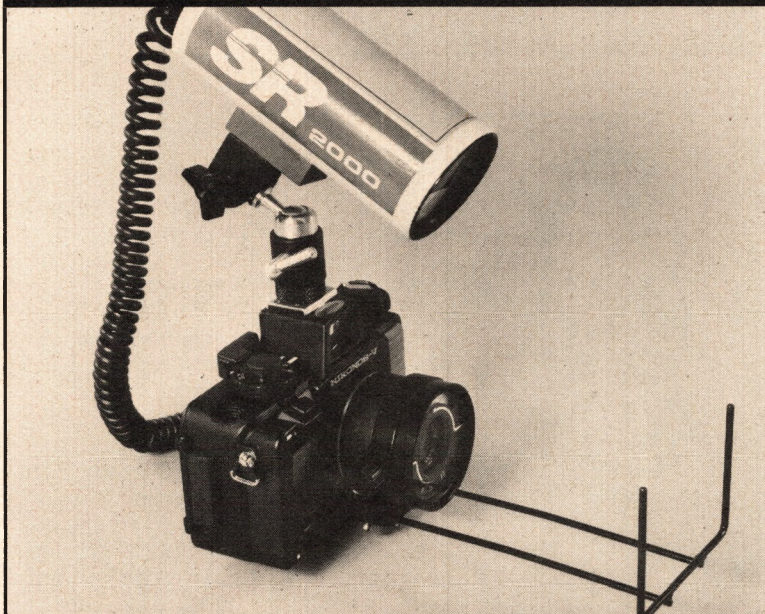
charge. The flash appears to be brighter and the Cokin filter system is a dream.

I am so enthusiastic that I plan to use only the new SR 2000 models. Sonic Research is presently offering a special trade-in program: It will give as much as a \$100 credit on old SR 2000 models toward the purchase of a new unit.

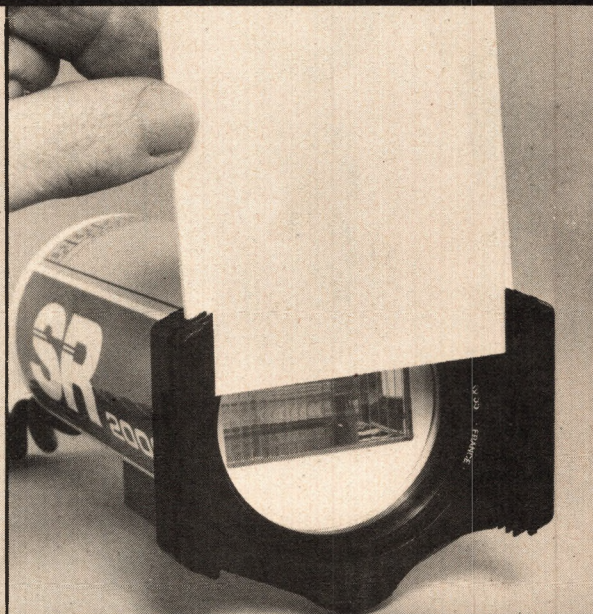
There are two SR 2000 models available. The SR 2000 Sync/Slave comes with a Nelson Sea-Loc flashcord connector and sells for \$260. It costs an extra \$5 to purchase the unit with a direct Nikonos connector. EO connectors are available on a special order basis. The SR 2000 Cordless Slave sells for \$250.

For more information, accessory price list and brochure, write to: Gary Sokol, Sonic Research, 8628-A Via Mallorca Dr., La Jolla, CA 92037 or call (619) 450-9672.

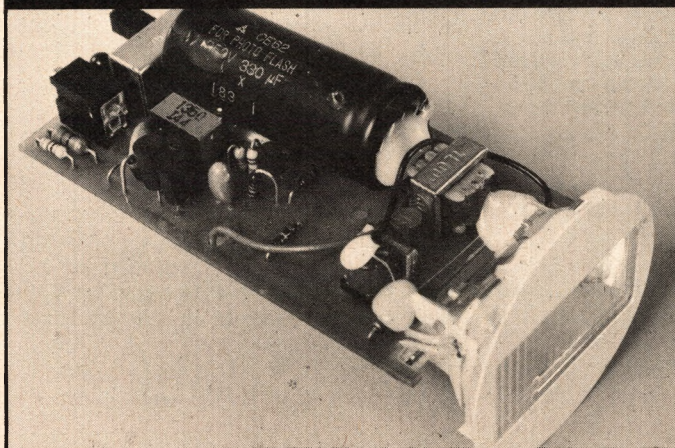
The ball joint arm (levered mechanism between camera and strobe) is one of 30 different accessories Sonic Research offers for the SR 2000.



The SR 2000 has a threaded front ring that will accept the Cokin filter mount. Diffusers create a softer beam.



The new SR 2000 has a completely redesigned, energy saving electronic circuit board with modular construction.



The SR 2000's ni-cad batteries can be charged by removing a plug at the rear of the strobe and inserting the charger jack.



Harvey's Macaw

A Colorful, Comfortable Wetsuit

TEXT AND PHOTOGRAPHY
BY BONNIE J. CARDONE



Red is a fun, festive color. It attracts attention and brightens up the scene. It is not a common wetsuit color, which is a shame because red is also very photogenic. That's why the arrival of Harvey's Macaw brightened my day. The women's model is red, glorious red. Oh yes, the top parts of the sleeves are black. And, silver and black accent stripes decorate the torso and sleeves. But, except for the Harvey's logo, all the rest of the suit is bright red. That's why I was the last to wear it. First I talked a friend into modeling it on the beach; then I talked another friend into modeling it underwater at Farnsworth Bank.

Farnsworth is one of the prettiest underwater gardens to be found anywhere. A model in red looks wonderful next to its purple hydrocoral, red gorgonians and tiny *Corynactis* anemones.

The Macaw is one of three suits in Harvey's Designer Signature series, new this year. It is made of Softstretch, a super



The Macaw, modeled by Anita Tatton, is one of three suits in the Harvey's Designer Signature series. It is bright red with accent stripes of silver and black. The top parts of the raglan sleeves are also black. The suit comes in three thicknesses, several different sizes.

stretchy, soft neoprene. The bright red outer material is nylon, as is the navy blue interior. This means the suit slips on and off easily and should be very durable.

Harvey's Designer Signature suits appear to be well made. There is a lot of attention to detail. All the seams are stitched and glued and all the edges are sewn. The top has a comfortable "ba-

nana" collar, so-called because that's what its shape resembles. It also has raglan sleeves and a Velcro® closing beavertail. Down the front there is a heavy-duty zipper of Delrin. The farmer johns close with Velcro on one shoulder and have sewn-on knee pads.

The men's model of the Macaw is also very attractive. It is basic black with red sleeves and collar. Silver, red and black stripes accent the sleeves.

Harvey's Macaw looked great and was extremely photogenic, but would it keep me warm in the cool (51-55°F) waters of California's Northern Channel Islands? To test it I took it with me on a three day dive trip aboard Truth Aquatics' *Conception*. It was a very comfortable suit topside, even during three hour surface intervals, because it is so elastic and has so few seams. Although my hands, feet and face got cold underwater the suit kept my torso warm: The material molds to the wearer's body, which minimizes water exchange.

The Macaw is available in one-quarter, three-sixteenths and one-eighth inch thicknesses. Sizes range from XS to Long XL in the men's model; from XS to XL in the women's. Suggested retail prices range from \$264 to \$298, depending upon thickness. If you don't need the warmth of farmer johns, you can get the Macaw with high-waisted pants for \$40 less. See the Macaw at your Harvey's dealer. For more information contact: Harvey's, 2505 South 252nd Street, Kent, Washington 98032. 🐸



THE MIGHTY MONO-LITH

TEXT AND PHOTOGRAPHY BY GERI MURPHY

Tekna's Terrific Little Key Ring Light

Here's a riddle for you: When is an underwater light not a light? Answer: When it is a key ring!

Tekna has done it again. With a reputation as an innovator, this master of light design has come up with another ingenious, one-of-a-kind product—an underwater light that doubles as a key ring.

It is, however, no surprise that the developer of a living dynasty of seven different underwater lights would give birth to a new baby. And, the Mono-Lith is truly the baby of the Tekna light line. It is barely three inches long, one inch in diameter and weighs less than 1.5 ounces complete with battery.

Like most Tekna lights, the Mono-Lith has two parts—a battery case and a front bezel. The threaded bezel contains the bulb and reflector. One dynamic type O-ring seal keeps the light watertight and pressure proof. A slight one-half twist of the bezel turns the light on or off.

You'll love this part: Tekna states the light is guaranteed to a depth of 2,000 feet. Any volunteers?

The light is equipped with a standard #222 flashlight bulb, available just about everywhere in the world. This tiny bulb has a threaded base and can be installed easily and quickly should the old one burn out.

The Mono-Lith has an amazingly bright

beam owing to the magnifier lens in front of the bulb. The light appears to be as bright as most two-cell flashlights.

Why is it called the Mono-Lith? Because the light is powered by a single (mono) three volt lithium (lith) battery. This one and one-quarter inch long battery may look like a midget, but it has the power of a giant. It contains four times as much electrical energy as an alkaline battery of the same size. It is one of a new breed of ultra-sophisticated batteries utilized in watches, calculators, etc.

The most amazing property of the lithium battery is its enormously long shelf life. It will last ten years or more. You could put it away in a drawer for ten years and it would still work. That is the magic of lithium.

Don't confuse shelf life with running time, however. The calculated running time for this tiny battery is three to four hours of continuous use. The light will probably run longer with intermittent use, but this is hard to estimate.

But wait, there's more. Attached to the end of this three inch light is a two inch key ring. Crafted of sturdy aluminum and bearing an elegant black anodized finish, this teardrop-shaped ring is ideal for carrying your keys. A threaded safety link securely locks the keys onto the ring.

The large end of the key ring is of suffi-

cient size to allow a diver to clip it onto a weightbelt or BC while diving. Taking your car keys along on the dive ensures they'll always be accessible.

If you don't care to carry your keys on the Mono-Lith light, I would still enthusiastically recommend you attach one of these little babies to your BC jacket for emergency purposes. It is nice to have a signal light should you get separated from the dive boat during a night dive.

No question about it, the Mono-Lith is a winner. Most divers fall in love with it almost instantly. You may end up with two or three hanging around the house, the car, the boat and so on. The little light works great underwater or on the surface. It's handy for finding things in the dark. I found it surprisingly convenient to carry. It is lightweight, compact and quite functional as a key ring.

One suggestion, however: Buy a couple of extra lithium batteries (Tekna #T-1021) when you purchase your light. You will find yourself using this little gem more frequently than you imagined.

The Mono-Lith sells for about \$14.95 including one battery and the key ring. Additional batteries are \$6.95 each.

Want one? See your local Tekna dive store dealer or contact: Tekna, 1075 Old County Rd., Belmont, CA 94002 or telephone (415) 592-4070. 

Mercury 25XD Outboard

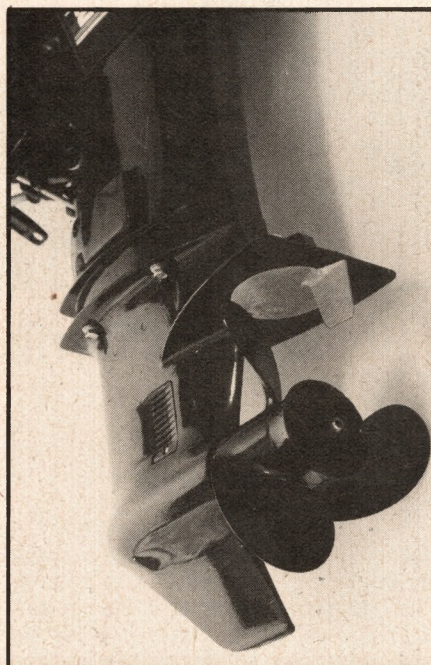
TEXT AND PHOTOGRAPHY BY FRED FISCHER

The Mercury 25XD outboard motor is designed for use with small rigid and inflatable boats in the 12-16 foot range. Motors that weigh much more than the 104 pound bulk of this engine become increasingly cumbersome for many divers' boating needs. On the other hand, a smaller motor might leave the boat dangerously underpowered.

There are actually 18 Mercury outboards from which to choose. They range in size from the single 74.6 cc cylinder Merc 2.2 all the way to the giant V-6 Merc 3.4 litre. The Mercury 25XD can be equipped with manual or electric start and can be adapted for remote steering. Two optional drive shaft housing lengths outfit the engine for use on average 15 inch transoms or tall 20 inch transoms. For the purposes of this review I chose the short, manual start Merc 25XD for use on a 16 foot inflatable because I didn't want to waste precious floor space on a starter battery.

Simplicity is the most obvious feature of this engine, which goes hand-in-hand with its reputation for reliability. All the controls except the choke are in the tiller handle, which tilts up and down. You go all the way from reverse to neutral to high speed forward with one clockwise motion of the wrist. The red stop button is recessed in the tip of the grip. Three cables buried in the handle link the controls to the engine. The choke, or more properly the Primer/Fast Idle knob, must be pulled all the way out for a cold start. In addition to advancing the spark, increasing the starting rpm and activating the carburetor fuel primer, an extra shot of fuel is injected directly into the engine through a special port. Once the engine has started the control is set midway for a fast idle during warm-up. For safety the engine tilt-up release is linked to the tiller control in such a way that you cannot tilt the engine up unless in the forward mode. This feature can, however, be frustrating during the last seconds of a beach entry.

Mercury cleverly combined the key corrosion control element and trim control into a solid zinc trim tab directly above the prop. If the engine tends to pull to one side or another at high speed, the angle of the small fin can be adjusted for compensation. Other corrosion prevention elements include a multi-layered



The 25XD has a zinc trim tab above the prop that can be adjusted to compensate for engine pull at high speed.

baked enamel finish on all exposed metal parts and an electro-deposited epoxy finish on certain exhaust elements subjected to heat and corrosion. The engine block is corrosion resistant XK-360 aluminum alloy and the cylinder bores are chromed. The water pump housing is, of course, stainless steel. Fouling from fishlines, which can ruin a prop shaft oil seal, is minimized with a fishline cutter blade in front of the seal.

For a test ride I attached the Merc 25XD to an old, rather soft Zodiac Mark III. As my dive buddy, Mark, and I left La Jolla Shores near San Diego I could see the look in his eyes as he dared me to make his boat perform in the moderate swell with all our dive gear and a new engine directly out of the box. Operation proved to be a pleasure with the multifunction tiller handle. The engine started

on the second pull after priming the fuel line and pulling the primer knob full out. Heading into the swell there was more than enough power for planing. We repeatedly took the engine from a dead stop to full rpm without stalling. In reverse the engine stalled only when I wrenched the speed control radically. An adjustment of the trim tab might have been necessary to compensate for a slight pull of the engine to one side at high speed.

The Mercury 25XD comes with a one year warranty against defects in workmanship. General and normal wear are not covered. A trip to the dealer is recommended after the first 20 hours, or three months, for adjustments and then every 6-12 months or 100 hours. Some adjustments are easily made by the owner and include carburetor low speed and idle adjust, fuel filter cleaning and replacement, gearhousing lubrication, spark plug service, waterpump impeller replacement and starter rope replacement.

The Mercury 25XD with six gallon fuel tank bears a suggested retail price of \$1,985. Whatever the actual price may be, it is easily justified by the features, benefits and the excellent reputation Mercury has for outboards. Oh yes, XD stands for "extra durable." 



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Ikelite's DIGITAL DIVE LOG is the ultimate waterproof dive timer and watch. This small microcomputer automatically numbers and records each dive and surface interval. Dives and surface intervals are numbered 1 thru 99 and the last 8 are stored in the DDL 1000's memory bank for later recall. At a depth of 4-7 feet, the water pressure activates the DDL's dive time mode; the large display shows the number of the current dive and the amount of time underwater. Upon returning to the surface, the DDL's microcomputer automatically records the total bottom time in memory and then displays the number of the current surface interval and the surface interval time. The DDL's memory bank stores the last 8 dives and surface intervals allowing you to scroll back through them at any time. Should any surface interval be less than 10 minutes, the new bottom time is added to the previous bottom time as specified by the Navy



Dive Tables. Underwater, the mode button can be depressed to read the time of day, use the stop watch feature, or scroll back through your previous bottom times and surface intervals.

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LIFEGUARD SYSTEMS

New Products And Seminars Bring An Innovative Approach To Diving Safety

BY BILL GLEASON

Lifeguard Systems, Inc., a New York based company, has dedicated its staff and entire product line to one goal, diver safety. At its simplest, a rescue may be as easy as reaching out a hand and helping an exhausted diver up a boat ladder. In those rare cases of decompression sickness or air embolism, sophisticated lifesaving/life support techniques as well as helicopters, ambulances hospitals and decompression chambers may have to be used. Lifeguard Systems, started two years ago, decided to explore all the state-of-the-art lifesaving techniques and determine whether they work in diving emergencies. Finding there were deficiencies, Lifeguard Systems designed new ways to cope with accidents. After the initial research, the company started a series of weekend clinics testing new rescue and lifesaving techniques

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After the initial research, the company started a series of weekend clinics testing new rescue and lifesaving techniques

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using a wide range of people who come into contact with divers: Emergency Medical Technicians (EMTs) and paramedics, both divers and non-divers; police, fire and military personnel. But the more teaching experience the company gained from professional rescue people, the more their president, Walt Hendricks, Jr., felt there was a need to get the sport diver involved in all phases of these rescues. After all, sport divers are present at nearly all accidents, from mild cases of tiredness to life-threatening situations. Teach them, to respond to emergencies and they'll be able to handle them in the best possible way. Hendricks designed a series of seminars specifically for the average diver setting up a curriculum that included all the basic information. His pioneering efforts in this field earned him the Greenstone award—diving's most prestigious annual safety award.

Lifeguard Systems has three basic seminars aimed at three different types of students and will tailor any of these to special groups on request. The advanced course is given routinely to professional medical and rescue people, those already trained in lifesaving and rescue techniques (police, fire, rescue, doctors and nurses). A second seminar is strictly for the military. The third, of greatest interest to divers, is for all people connected with the water; boaters and non-divers, sport divers and instructors. Lifeguard Systems seminars are usually held on a weekend and usually in conjunction with a local dive shop. Since all participants are actually in the water practicing rescue techniques, the local dive site is chosen because it offers conditions representative of that area. That means surf and open water in Southern California, rocky shorelines in the Northeast and lakes and quarries in the central areas. The seminars start on Friday night and continue throughout the weekend until late Sunday afternoon. They are neatly divided into classroom work, complete with text and slide shows, and extensive hands-on training in and out of the water. Walt Hendricks believes this latter is vital. All areas are covered: rescuing a tired swimmer or diver; treating injuries aboard dive boats (these are the most common accidents); and learning to recognize hypothermia. The more serious and life threatening accidents such as air embolism, decompression sickness and drowning are also studied in detail, with great attention given to a skill that is recommended for every diver, Cardiopulmonary Resuscitation (CPR). Lifeguard Systems teaches both in-water and conventional CPR. Anyone who has ever been involved in a real lifesaving situation can give glowing testimony to its value.

It was while teaching CPR that Hendricks got the idea for one of the special products Lifeguard Systems offers our sport. Walt found most divers, even those trained in CPR, often had trouble remem-

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- Diversmasters Far East Pte. Ltd. Singapore 265-0658

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Photo by Jay Smith, Tulsa, OK — 1983 Grand Prize Winner

Exciting Prizes

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In addition to local and regional prizes, the Grand Prize Winner will receive a Nikonos V System (Nikonos V underwater 35mm camera, 35mm f/2.5 W-Nikkor lens, Nikonos SB-103 TTL Speedlight and related accessories) compliments of **Nikon** and a deluxe one-week diving package for two in either Australia or Grand Cayman. The Australia trip is compliments of Pro-Diving Services (a PADI 5 Star Training Facility) at Lord Howe Island. The package includes accommodations for 7 nights and round-trip airfare from Sydney to Lord Howe Island (plus much more.) The Grand Cayman trip is compliments of Bob Soto's Diving, Ltd. and the Holiday Inn Grand Cayman (a PADI Diving Society Resort Destination and 5 Star Training Facility). The Guaranteed Dive Program includes 8 days/7 nights, 6 two-tank dives and unlimited shore diving (plus much more).

The winning photograph will also be featured on the cover of *Diving Ventures* and *The Undersea Journal*.

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Local winners are entered into the International Competition. The eleven Regional Winners (ten U.S. regions, one international) chosen receive custom 16 x 20-inch color prints of the winning slides (compliments of Scuba Chrome); publication in *Skin Diver Magazine* and *The Undersea Journal*; and entrance into the Grand Prize judging.

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COMPETITION RULES

1. The PADI Underwater Photography Search/Competition is open to all amateur photographers. Only underwater photographs will be accepted (no aquarium or pool shots). Entries may be submitted only by the original photographer.
2. No entry will be permitted that has won a Regional or Grand Prize in any previous PADI Underwater Photography/Search Competition.
3. All entries must be submitted to a participating facility for local judging. Local winning entries will then be sent to PADI Headquarters for international judging. Applicants may enter as many photographs as they wish: photographs may have been taken any time with no geographic restrictions.
4. Winners shall be chosen in one category: color slides. All entries must have a title. Participant's name, address, telephone number, facility name and the photo title must be printed clearly on each entry.
5. An entrance form and a \$4 fee per entry to the participating training facility shall accompany all photographs submitted. The completed form acknowledges reprint rights for PADI International when proper photographic credit is given. The utmost care and handling will be given all entries, but no responsibility will be assumed by PADI International or any PADI Training Facility. Photographers retain ownership, and all entries will be returned after judging has been completed.
6. Local judging will be done by PADI Training Facility staff members; international judging will be done by the PADI Underwater Photography Search/Competition Committee.
7. Winners will be chosen by a point system based on technique, lighting and composition. Bonus points are awarded for exceptional effectiveness in any given category, exceptional creativity and degree of difficulty. Vertical format is preferred. Decisions by the judges shall be final.
8. The Search/Competition shall begin August 1, 1985 and end October 31, 1985. Regional and Grand Prize winners will be announced in Spring 1986.
9. Owners, employees and staff of participating Training Facilities and PADI Headquarters employees are not eligible.



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LIFEGUARD SYSTEMS

bering the correct steps to use. It's hardly surprising, since most people in non-rescue professions might use the training only once in a lifetime. So, Lifeguard Systems designed a special waterproof, laminated card, approximately the size of a credit card, that details the exact steps to follow when giving CPR. Considering the universal value of CPR (it's much more likely to be used in a non-diving situation such as a heart attack or smoke inhalation) and the low cost of the card (\$1.50; buy two, get one free) it's a necessity for every diver's wallet and dive bag.

When Walt Hendricks was doing his research, he also discovered another unique problem. Every time someone needed a rope or line to throw to a tired or exhausted diver, it was attached to the anchor, the dock or had managed to tie itself into a thousand little knots and kinks. Since it might take several minutes to find a line or get it ready to throw to the diver, he/she was most likely to be floating well down current and out of reach. What started out as a tired diver rescue could become a full blown emergency. Realizing those first few seconds are critical in handling and preventing emergencies, Lifeguard Systems designed its Rescue Bag. In a small, light package, the Rescue Bag combines rope storage and a weight. Using the bright, easy-to-see bag is simple. You slip your wrist through the safety loop, start to toss the bag from behind your hip and release it when it's approximately the height of your chest. After one or two practice throws, you can get the bag exactly where you want it. After it's been used, simply repack the line in the bag and it's ready to be used again.

The value of the Rescue Bag for shore and boat diving is easy to see. For one, it's bright and highly visible. Second, it's enclosed in a bag that's designed only for helping divers and swimmers. (You won't find anyone using the bag as an anchor or mooring line). Like a fire extinguisher, it should be displayed in a prominent place on a boat and used only when it's needed.

The Rescue Bag is well made. The line is 3/8 inch polypropylene and has a working strength of 300 pounds. The bag is nylon taffeta to resist the elements and comes complete with lockable closures, weight and float. The Rescue Bag comes with either 60 or 75 feet of line. The retail price for the 60 foot model is \$34.95; the 75 foot model is \$39.95.

For more information on the Rescue Bag or the wide range of seminars offered, contact: Lifeguard Systems, 25 West 43rd St., Suite 920, New York, NY 10036; (212) 348-6790.

Agfachrome 100 Professional Color Slide Film is a medium-speed, general purpose film that is one stop faster than Agfachrome 50 and one stop slower than Agfachrome 200. If you wish to standardize with one film for both long shots and close-ups rather than take all three on a dive trip, Agfachrome 100 might be your best choice.

The new Agfachrome films are the result of twin crystal technology and feature new emulsions and layer structures. Both flat and compact forms of crystals are used in the emulsion. The larger surfaces of the flat crystals are coated with dyes that result in high film speed and fine grain and the more compact crystals increase sharpness. In addition, a special process eliminates the coarse crystals that increase graininess and the extremely small crystals that reduce sharpness.

The color emulsion is in two layers: The large, highly sensitive crystals are in the top and the smaller, less sensitive crystals in the bottom. The combination of these two layers minimizes graininess,



FILM TEST

TEXT AND PHOTOGRAPHY
BY JIM AND CATHY CHURCH

AGFACHROME 100

especially in the light to medium density range. Screening dyes reduce light scatter within the emulsion, a red mask over the cyan layer improves green and an ultraviolet filter eliminates any bluish cast. The goal is to reproduce colors accurately, without a bias toward any particular color or tint.

Agfachrome 100 (as well as Agfachrome 50 and 200) is designated as CT or RS. If CT, film processing is included in the purchase price and the mailer is in the film box. If RS, processing is not included. You can mail CT film in even if you lose the mailer, because the CT designation is also on the side of the cassette. Because Agfachrome color slide films are E-6 compatible, you can have Agfachrome 100 slides processed at any dive resort that offers overnight color slide processing. Or, you can home process Agfachrome slide films in standard Kodak E-6 or Hobby-Pac chemicals.

We tested Agfachrome 100 while diving off the islands of Kauai, Maui and Hawaii. Sunlight exposure settings for level camera angles at depths of about 30 to 50 feet were usually f8 on sunny days and f5.6 for slightly cloudy days.

With his Subsea Mark 100, Jim set the

strobe for 100 watt-seconds and exposed Agfachrome 100 for the sunlight exposures at distances of about three apparent feet or more. Closer, he usually stayed with the sunlight exposure, but turned the Mark 100 down to 50 ws.

With our Nikon SB-102 strobes and wide angle diffusers, manually controlled exposures at three apparent feet were best at about f8 to f11, depending on subject reflectance. For fast action with bright, reflective yellow fish, Jim found that manual exposure control with the diffused strobes set for one-quarter was best. The strobes recycled fast and didn't overexpose the fish. With our smaller Nikon SB-103 strobes, apertures were about one stop wider.

At Kauai, using the Subsea Mark 100, Jim took several 15 mm wide angle long shots, at a depth of about 25 feet, of Pete Ricciardi, owner of Aquatics Kauai, teaching Cathy to use his Ikelite video housing. The sky was cloudy and it had been raining recently, so the U/W visibility and light level weren't the best. Because Jim was making sunlight exposures with soft strobe fill—and strong sunlight and clear water are needed for colorful sunlight exposures—we ex-

pected the colors to be fairly weak.

Moving onto Maui, Jim took several sunlight exposures during a wall dive on the outer rim of Molokini Crater. Using a Nikonos V and downward camera angles, he opened the lens to f2.8 to gather enough light for the exposure. We couldn't expect much color—just shades of blue on blue accented by rising bubbles. Inside the crater, Cathy took some lemon butterflyfish and fan-tailed filefish portraits with her Nikonos Close-Up Kit and twin SB-103 strobes.

At Kailua-Kona, on the big island of Hawaii, Cathy took some Nikonos 28 mm lens shots of Jeff Leicher, of Jack's Diving Locker, face to face with a small spotted moray. She used twin SB-103s and TTL, but doubled the ISO film speed setting on the dial to prevent accidental strobe overexposure. She also took several fish close-ups at f22 with a Nikonos Close-Up Kit, alternating between TTL and manual exposure. Jim used a 15 mm lens to photograph Cathy posing with a Nikonos V, extension tube and twin SB-103 strobes at about two apparent feet. He used two SB-102 strobes, with a wide angle diffuser on the left strobe to spread and weaken it. He set the aperture for the

sunlight exposure and set the ISO film speed dial for ISO 200—double the ISO 100 actually used—to reduce the strobe output for fill lighting.

After the slides were processed we examined them on a 5000K light box under a 5X Kodak loupe. The Kauai slides showed surprisingly good sharpness and color, even though it was a dreary day. We could see colors even in the shadow areas where we expected darker tones.

The Maui slides were much better, largely because of weather conditions at that particular time. Jim's downward angle 15 mm lens shots at the outer wall of Molokoni showed good gradations of blue on blue, accented by the diver's white bubbles rising to the surface.

Cathy's slides of Jeff and the eel, at the Kona Coast, showed exceptionally natural skin tones. Fine details, such as Jeff's hair, were quite sharp. Her fish close-ups were quite sharp and colorful for an ISO 100 film. Jim's shots of Cathy posing with a Nikonos V and twin strobes had good color.

Agfachrome colors appear to be accurate and the film doesn't seem to accentuate any particular one. The colors appear natural, neither oversaturated nor manufactured. Also, as we stated in a previous article (Agfachrome 50 film test, April, '85, SDM), Agfachrome films display excellent color consistency. In examining slides taken on Agfachrome 50, 100 and 200, we didn't find the color rendition varying with film speed.

We believe that Agfachrome 100 is less contrasty than most other ISO 100 speed films. The shadows don't seem to go as dark, so more color appears within them. The highlights are less prone to overexposure.

Agfachrome 100 is a good general purpose choice, especially with wide angle lenses that produce a wide zone of depth of field. If, however, you specialize in close-up photography, you might also consider Agfachrome 50. If you use a 35 mm or 28 mm lens and take a lot of pictures at about three or four apparent feet, where depth of field is limited at the wider apertures, you might consider Agfachrome 200. Since it is one stop faster, this ISO 200 film increases your depth of field by one-fourth.

Agfachrome 100 is available in 36 exposure cassettes of 35 mm film. Agfachrome 100 CT (processing included) retails for \$12.91. Agfachrome 100 RS (without processing) retails for \$7.16. For more details, write directly to: Agfa-Gevaert Inc., 275 North Street, Teterboro, New Jersey 07608.



Opposite page: Cathy Church and Pete Ricciardi photographed with Nikonos V, 15 mm lens, f5.6, Subsea Mark 100 strobe at 100 ws. Top: Jeff Leicher and eel, Nikonos V, 28 mm lens, twin SB-103 strobes, f11 (film speed dial set to ISO 200). Above: Yellowtail filefish, Nikonos V, Close-Up Kit, twin SB-103 strobes, f22. Below: Molokini Wall, Nikonos V, 15 mm, sunlight, f2.8, 1/90 second.





DUI Fabric Weightbelt

More Weight, Less Pain

TEXT AND PHOTOGRAPHY BY BONNIE J. CARDONE

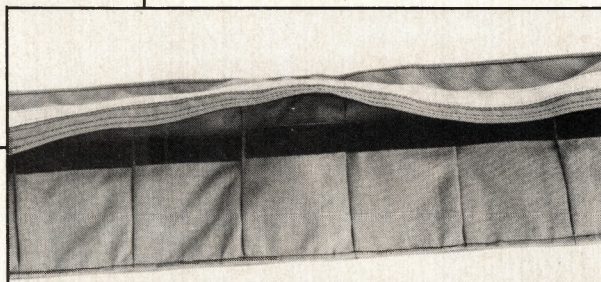
Had there been a Diving Unlimited International (DUI) fabric weightbelt when I was a new diver I might not have broken my toe. As it was, when I decided to buy my own weightbelt, I sought opinions from several experienced divers. Then I purchased a nylon webbing belt and two seven pound hip weights. I bolt-

ed these latter to the belt so they wouldn't slip around. This carefully conceived creation was a disaster for me.

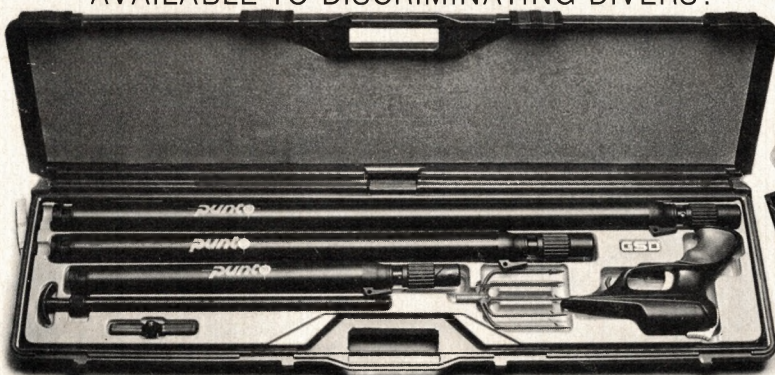
The divers I had polled were men. On them, these weights were comfortable. But, they were big, I was little. Their hips were the narrowest part of their torsos; mine were not. Unaccustomed to the ex-

tra inches the weights added, I kept banging into parts of the dive boats. Not only did this bruise my body, it was destructive to my surroundings!

The weights rested uncomfortably on my hip bones topside. Underwater the whole belt would slide around until one weight was under my tank and the other



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was hanging under my abdomen. Since the weights were bolted in place and there were only two of them, adding or subtracting lead to accommodate different diving depths was a hassle.

Lead weights are expensive, however, and I didn't get rid of the seven pounders until I accidentally dropped one on the big toe of my right foot. The fracture that resulted convinced me there must be a better way.

I replaced my hip weights with two five and two two pound weights, spaced evenly along the belt and *not* bolted on. But, that was before the invention of the DUI fabric weightbelt. It is a lead shot belt. There are eight expandable, Velcro® closing pockets, into which fit eight Velcro closing pouches. You can fill each of the pouches with up to five pounds of lead shot. These latter are easy to add and remove from the pockets. This can even be done underwater. The shot cannot force the Velcro open because of DUI's Shot-Lock® system. The Velcro on one side of the pouch is sewn to it at the top and middle: The shot gets under the Velcro and actually applies pressure that keeps the Velcro closed.

Because it is filled with tiny lead shot, the weightbelt has a low profile. Boat owners should love it because the heavy-duty Cordura nylon of which it is made cannot chip paint, dent metal or scratch anything. If it is accidentally dropped, this weightbelt will not damage the deck or fracture parts of the human anatomy that might get in its way. Because the belt molds to the body, it is less likely to slip and should stay in place underwater.

A lot of thought went into the DUI weightbelt and this shows. There are nylon webbing loops on the inside that keep the ends of the straps neat and out of the way and provide places from which to hang accessory clips. The nylon webbing is securely stitched to the nylon pockets. There is a heavy-duty, nylon quick-release buckle.

There are several versions of the DUI weightbelt. The one that illustrates this article has eight pockets and pouches that hold up to 40 pounds of lead shot. It sells for \$74.80. The six pocket/pouch, 30 pound model sells for \$70.40. According to DUI's Bob Cranston, these are the only lead shot belts that will hold more than 20 pounds of weight, an important consideration for drysuit wearers. DUI also sells twin pockets/pouches, that slide onto traditional weightbelts, for \$17.24.

All models of this weightbelt come in either black or bright blue with a yellow stripe. The lead shot is available in dive stores and gun shops. DUI recommends the use of coated bird shot, which sells for about \$12 per 20 pound bag. Lead weights (up to the five pound size) will also fit in the belt pockets.

The DUI fabric weightbelt is not only comfortable but good looking. You can see it in your dive store. 

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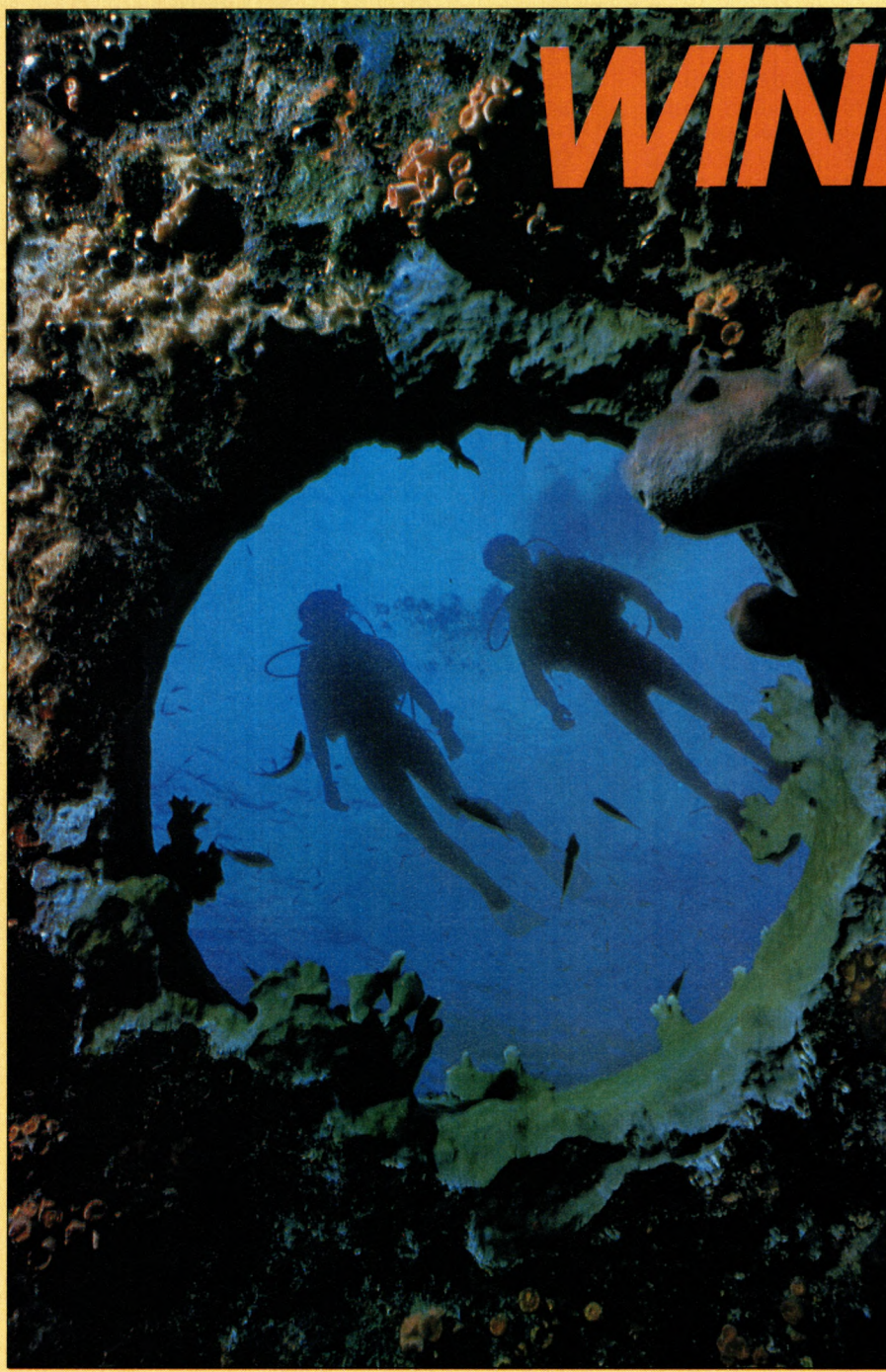
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WINNERS

OF THE 1984 PADI PHOTO CONTEST

The winners of the Sixth Annual PADI Underwater Photography Search/Competition have been chosen. Entries from all over the world, including Canada, Norway, Japan and the United States, created the most competitive and successful contest ever. Regional and grand prize winners were chosen for technique, composition and lighting.

Designed to provide non-professional underwater photographers with the chance to win valuable prizes and publication opportunities, the Seventh Annual Search/Competition is now underway. Contestants must enter one of the many local contests between August 1 and October 31 at participating PADI Training Facilities. Local winning slides are then submitted to PADI Headquarters for entry into the international contest for regional judging. Regional winners, in turn, compete for the grand prize, which includes a Nikonos V System (courtesy of Nikon, Inc.) and a choice of a deluxe one week vacation for two in Grand Cayman (courtesy of Bob Soto's Diving Ltd. and the Holiday Inn Grand Cayman) or in Australia (courtesy of Pro Diving Services at Lord Howe Island). Custom prints from Scuba Chrome are presented to all regional winners.

For complete information on the 1985 contest, along with a list of participating PADI Training Facilities, contact PADI Underwater Search/Competition 1985, 1243 East Warner Avenue, Santa Ana, CA 92705; (714) 540-PADI.

BY JEFF MONDLE

PADI Photo Search/Competition Grand Prize Winner/no title/Photographer: Kathie Mullins, Erlanger, Kentucky/Photograph submitted by: C & J Scuba Supply, Dayton, Ohio



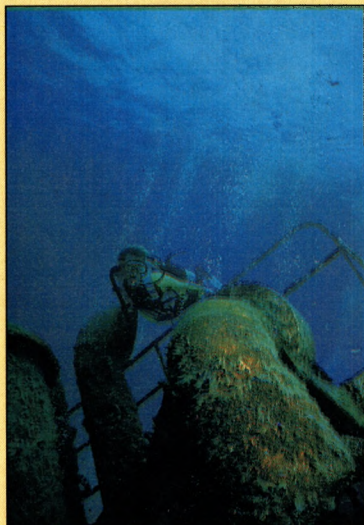
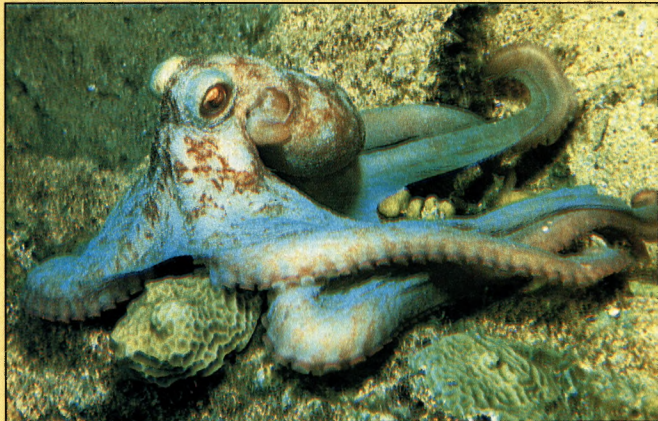
Title: Solitude/Photographer: Gery Weiser, Philadelphia, PA/Submitted by: Princeton Aqua Sports, Princeton, New Jersey



Title: Hole in the Wall Gang/Photographer: Ted Nizialek, Tonawanda, NY/Submitted by: Niagara Scuba Sports, Buffalo, NY



Title: Puffer's Eye/Photographer: Bev Schultz, Richmond, Virginia/Submitted by: Chesapeake Diving Center, Hampton, Virginia

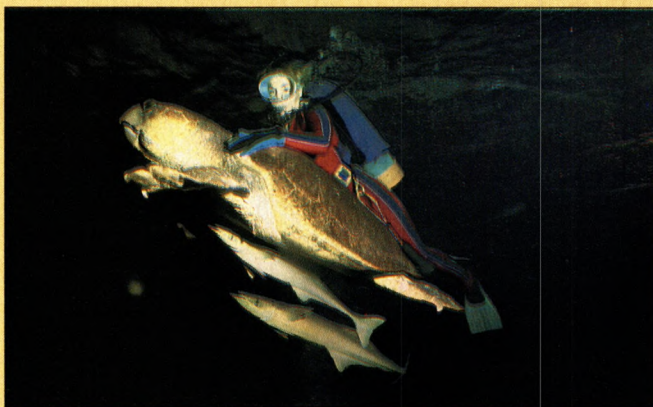


**Title: Legs
Photo: Marc Siem
Winona, Minnesota
Sub. by: 3 Little Devils
Scuba Shop
Baraboo, Wisconsin**

**Title: Wreck Diving
Photo: J.W. Mowbray
Brownsville, Texas
Sub. by: Scuba West
Dallas, Texas**



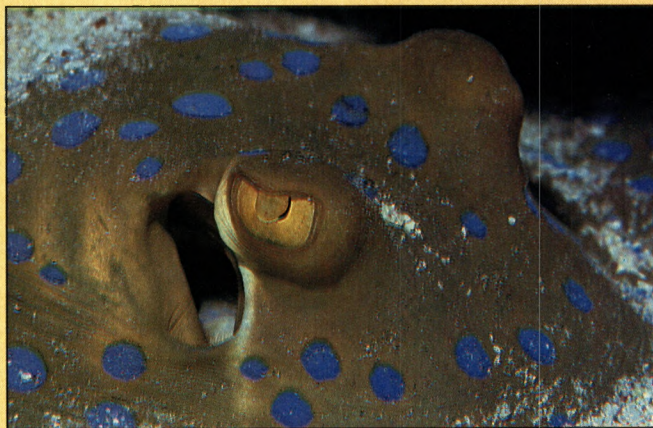
Photo Title: Hello Friend/Photographer: Inga Behr, Pasadena, California/Submitted by: Sport Chalet, La Canada, California



Title: Hitchhiker & Friends/Photo: Dan Wagner, Indialantic, FL/Submitted by: Dive Center of Sebastian Inlet, Sebastian, FL



Title: You/Photographer: Robert J. Benson, St. Louis, Missouri/Submitted by: Windwalker Dive & Travel, Belleville, Illinois



Title: Ray in Waiting/Photographer: John S. Dyer, Oxnard, California/Submitted by: Aqua-Ventures, Inc., Oxnard, California



Photograph Title: Dangerous Beauty/Photograph taken by: Einar Svendsen of Norway/Photograph submitted by: PADI Norway

The Reluctant Prins

TEXT AND PHOTOGRAPHY
BY RICHARD TRIEBE



The 2,800 ton freighter moved through the dark night with the self assurance only a large vessel commands. She was the 258 foot Dutch Oranje Line motor vessel, *Prins Willem V*. It was the evening of October 13, 1954. Having just cleared Milwaukee Harbor she was in Lake Michigan outbound for the St. Lawrence and the high seas with a 730 ton cargo of hides, slabs of beef and pork, band instruments, jukeboxes, outboard motors and a printing press. She was 1.7 miles east of the Milwaukee breakwater light when she had to alter her course to pass astern of the tug *Sinclair Chicago*. Little

did she know the tug was towing an improperly lit and unmanned barge at the end of 800 feet of steel cable. By the time she saw it, it was too late to do anything. Groaning from the rending steel plates filled the night air as the *Willem* met the cables, severed them and continued on. There was a 20 foot gash on the *Willem*'s starboard bow, above and below the water line. The water gushed into the hold at a fantastic rate. The captain, seeing the situation was hopeless, quickly sent out an S.O.S. The crippled freighter steamed on another two miles, sinking lower and lower in the black water. The crew, know-

ing that soon she would head for the bottom, quickly launched the two lifeboats. Responding at once, the Coast Guard cutter *Hollyhock* rescued all 30 officers and crew from the lake surface. The *Prins Willem*, unable to stay afloat any longer, went down for the count. She settled on a hard clay bottom in 80 feet of water with a list to starboard.

After the accident there were suits and counter suits between the Oranje Line and the Sinclair Refining Company. At the center of the argument was the fixing of the blame for the accident. The captain of the *Willem* said there were no lights on

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the barge and the tug did not sound a whistle as it should have. The tug captain testified there were lights and that the *Willem* did not properly signal she was changing course to pass astern of the tug. A Coast Guard board of investigation finally decided that both were to blame.

The value placed on the *Willem* and her cargo was \$1.25 million. With that kind of inducement there is little wonder so many people wanted to raise her. The reluctant *Prins* seems to have a mind of her own though, as she defied three major attempts to bring her up from her resting place. It was almost as if there were a guardian spirit on her deserted bridge—a protecting genius loci.

The first salvage attempt was in 1958, headed by Max Gene Nohl for Seaboard Excavators, Inc. He proposed to raise the sunken ship 15 feet through the use of pontoons, drag her into shallower water, rerig the pontoons and move her into shallower water still. This was to be continued until she was in water shallow enough to allow her to be patched, pumped out and refloated. They used 10 x 50 foot gas storage tanks as pontoons, lashed to the sides of the ship. These would be blown out while at the same time air would be pumped into the hold to raise the ship off the bottom.

On September 25, 1958 all was in readiness for the expected lift. A comic atmosphere prevailed as newspaper reporters bobbed about in their boats trying not to get seasick. The pumps began! They throbbed on for 45 minutes before a signal from the awakening *Prins* could be read. Everyone watched intently as the water seethed and boiled, but no one was quite ready for the next turn of events. Instead of seeing a ship materialize from the depths they saw a 50 foot missile leap high into the air vertically, clearing the lake surface by three feet. Apparently, the *Prins Willem* had shrugged off a dozen steel cables to let loose a drum which then shot to the surface, missing the salvage barge by a scant 50 feet. Later some people heard demonic laughter emanate from the swirling water. Was it the genius loci?

Any further attempts at salvage that year were postponed owing to bad weather. The barge used as the base of operations was needed elsewhere so she pulled up stakes and headed toward Lake Erie.

In January 1959, Seaboard Excavators was adjudged bankrupt. This didn't stop the ever optimistic Nohl. He organized a new venture in October of that year called the Willem Salvage Corporation. Nohl, however did not live to see this next attempt. He and his wife, Eleanor, were killed in a fiery auto accident in February 1960. The next attempt was pushed through by Robert Meissner, an associate of Nohl's. It involved the use of 42, 20 foot lift bags, exerting an average upward force of 25 tons each.

In October 1961, the bags were filled

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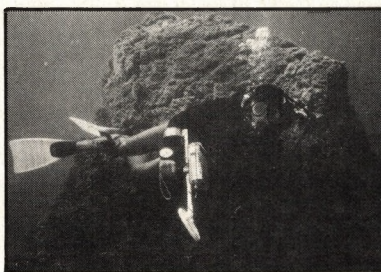
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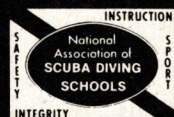
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PRINS

to capacity and divers did report movement of the ship. Groaning was heard as the bow moved at least a foot, but the suction of the clay was too much. How many more tons would it require? And, what about that groaning? Was it the genius loci? With no more lift bags available and the weather deteriorating, the attempt was put off for another year.

The third and last attempt was made by Charles Huthsing who now owned the *Willem* after purchasing it at auction for \$85,000. The General Salvage Corporation, owned by Huthsing, made their attempt at salvage in 1965.

First they took as much cargo out of the hold as possible using numerous divers and liftbags. Years' accumulation of muck and silt was pumped from the hold to make room for the dozens of huge lift bags and 500 empty oil drums. All this being accomplished, they then proposed to pump out the forward and after ballast tanks while at the same time filling the liftbags and drums. The *Prins Willem* would be righted and raised 20 feet from the bottom. Cables attached to tugboats on the surface would be tied to the ship which would then be towed to shore underwater. After many delays owing to bad weather and equipment malfunction, the latest salvage attempt was abandoned. Were these delays the work of a protective demon?

As of this writing the *Willem* has made one firm bankrupt and passed through five different ownerships before being sold back to the Nohls. As you recall, Max Nohl was the original owner immediately after the sinking. Owing to his untimely death, ownership went to the Nohl heirs. As the issue stands right now the owners are content to let the *Prins Willem* sit on the bottom until somebody invents something to make salvage feasible.

The *Willy*, as we affectionately call her, is far and away one of the best dives in the area. I never miss an opportunity to visit her. Her 60 degree list to starboard conceals the fatal gash on her bow. She is intact and owing to her settling into the clay, it is 110 feet deep in some of her holds. Photography on this wreck can be very rewarding but because of limited visibility (about 8-10 feet) a wide angle lens and powerful strobe are recommended.

There are several good charter boats in the area and taking them is recommended as their electronics make finding the wreck much easier.

A DIVE ON THE WILLY

As I begin my dive I find the anchorline, tied to the wreck's port railing. In less than a minute I see the railing materialize from shadow to clarity at 60 feet. I halt my descent here to check my gauges and watch. I don't put my feet on the deck be-

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cause it's too steep. Instead I use the railing, not only as my handhold, but also as my guide. Turning to my right, I pull myself hand over hand toward the stern. In limited visibility such as this you must be careful not to stir up the silt by kicking. I pass two deck houses with rusting steel and flaking white paint. Here and there I see round holes in the deck house where



portholes once were. Some still have the portholes but the empty ones dominate. The railing curves into the bottom as I reach the stern. There on the hull, wiped free of silt by other divers, is the name, *Prins Willem V* and her home port of Rotterdam beneath. It is an impressive sight!

A glance at my pressure gauge tells me my air is almost half gone. I ascend to the deck and explore the after cabins as I work my way back. Using my brightest light I peer into doorways and through windows. The silt in the powerful white beam makes it appear to be snowing. I try hard to see through the swirling silt but most of the details are obscure. I am able to make out a few tables, chairs and other jumbled furnishings. I proceed forward, passing one of the two masts. It rises from the deck surface between the after cabins and the bridge. Looking up at the gray, silt covered mast, I notice how my silvery bubbles play around the sides, bringing to mind the extreme angle of the deck. In the dim light at 70 to 80 feet my senses have performed a small miracle, they have corrected for my slanted world, making everything seem plumb and level. One more glance at my gauge is enough to snap me back to the present. I go in search of the familiar port railing and anchor line. I half climb and swim the sloping deck till I reach my goal. I pull myself up the line but pause in my ascent. I suddenly have the strange feeling of being watched. Turning to look over my shoulder I see the dim light has an eerie green cast as it spills over the high points of the wreck. I strain my eyes, trying to penetrate the shadows, but to no avail. The longer I stare the more uneasy I feel. Suddenly there is a creaking off to my left. I turn my head swiftly but see nothing out of the ordinary. I try to bolster my sagging courage by scolding myself: There is nothing there! I continue my ascent much more rapidly now. So long *Willy*, I manage weakly, I'm glad you decided to stay. 

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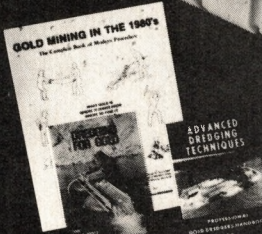
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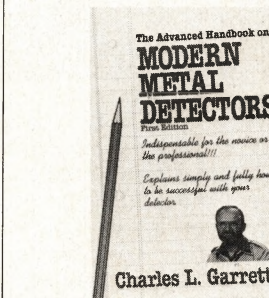
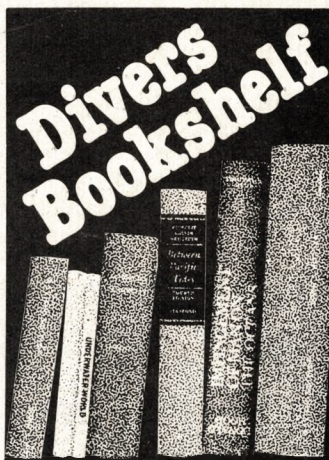
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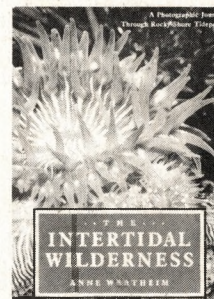
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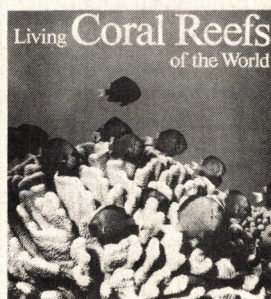
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BY JIM WALKER

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The Torpedo Ray

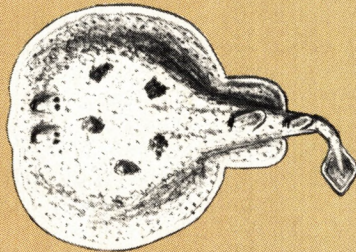
(*Torpedo sp.*)

The family Torpedinidae, known as electric rays or torpedo rays, consists of 10 genera and about 40 species. These occur throughout the world in tropical to temperate waters. The largest genus is *Torpedo*, with about 14 species. Two are known from the Red Sea, *T. panthera* and *T. sinuspersici*. While diving at Sanganeb Atoll off Port Sudan in the Red Sea I came upon the torpedo ray in the photograph, swimming feebly and erratically around the lagoon reef, occasionally bumping into coral heads. As I did not recognize the species, the need to collect this ray with a spear I had at hand came to mind. Such a thought was quickly rejected when I realized I might be the recipient of a strong electric shock if I made contact with my metal spear. After showing the photo to colleagues, we have concluded that this ray seems to represent a new species, hence it is only identified as *Torpedo sp.* The photo is published here with a special request. If anyone should collect one, please preserve it in formalin and ship it to a museum (preferably my institution, the Bishop Museum, Honolulu). There are two large electric organs, one on each side, in electric rays. The outlines of these organs can usually be seen externally. The organs make up about one-sixth of the total weight of the ray. Each consists of numerous hexagonal to rounded columns separated by fibrous tissue (not unlike the structure of a honeycomb). The number of such columns varies from about 150 in some species to over 1,000 in others. The columns are filled with a clear jelly-like substance and divided transversely by numerous discs. As would be expected, these organs have a highly developed nerve supply. From a study of developing embryos it has been ascertained that they are derived from

muscle tissue. The contraction of muscle in all animals is accompanied by a minute amount of electric current. The electric rays have augmented these electrical properties at the expense of the muscular. Electric rays can deliver a powerful shock. I recall vividly the one I received from a small *Narcine brasiliensis*, which had washed up on a beach at Isla de Margarita off Venezuela, seemingly dead from the effect of an ichthyocide. The shock was as severe as any I have experienced tinkering with electric appliances. The largest species of *Torpedo* are reported to reach a length of five to six feet and weigh up to 200 pounds. A shock from a large one can knock

down and temporarily disable a man. A diver is therefore well advised to avoid contact with these rays. Voltages as high as 220 have been reported for the Atlantic torpedo (*T. nobiliana*) which is about the maximum for the electric catfish of rivers of Africa

and more than the so-called electric eel of the freshwaters of South America. Voltages vary greatly with species, from individual to individual and at different times for the same ray; much depends on how recently the organs have been discharged. Repeated use weakens their power. The electrical discharge from torpedo rays serves two important functions: a deterrent to predators and as a means of obtaining prey. These rays often lie partially buried in mud or sand. They feed on crustaceans, mollusks, worms and fishes. Surprisingly large fishes have been found in the stomachs of some torpedoes with no evidence of injury. These were probably killed or stunned by the ray's shock. Crustaceans are believed to be more sensitive to this than fishes. Electric rays have no economic value. Their flesh is tasteless.



Text And Photography By John Randall

Randall photographed the ray in about six feet of water in the lagoon of Sanganeb Atoll off Sudan in the Red Sea. He used a Nikon F with 55 mm lens in an Ikelite housing, with twin Vivitar strobes, Kodachrome 64.

DIVING FOR KING CLAM

BY CHARLES SEABORN



photo/Douglas McNair

Pacific Northwest waters are known in general for their ability to support an assemblage of diverse marine life, much of which attains gigantic proportions. Examples include the giant Pacific octopus, giant barnacles, huge wolfeels and the list goes on. While these critters tend to get a lot of press in the diving community, there is in fact a sleeping giant of the Pacific Northwest about which we don't hear much—the geoduck. Pronounced “gooey-duck” this unsung hero of the Pacific Coast is the world's largest digging clam. The qualifier “digging” is necessary to avoid any confusion with the world's largest exposed clam—the *Tridacna* of Australian and Southeast Asian tropical reefs. While these non-burrowing forms may reach lengths of three to four feet and truly humongous weights of several hundred pounds, a sizable adult geoduck may weigh in at 10 to 12 pounds, with the average closer to two. It didn't take an overly perceptive marine biologist to give its scientific name—*Panope generosa*.

What really sets geoducks apart from their tropical brethren is their ability to burrow into the sand/mud bottoms of the bays and inlets of the Pacific Coast from California to Alaska. Most burrowing organisms dig to escape detection from surface dwelling predators and geoducks are champion diggers. In fact, their seemingly peculiar name is derived from a Pacific Coast Indian word roughly translated as dig deep. An adult typically digs three to four feet into the seafloor and stays in essentially the same burrow for the duration of its life span, estimated at up to 150

years. Right now there might even be a few geoducks living in the bottom of Puget Sound that were born when Capt. George Vancouver was exploring these waters almost 200 years ago.

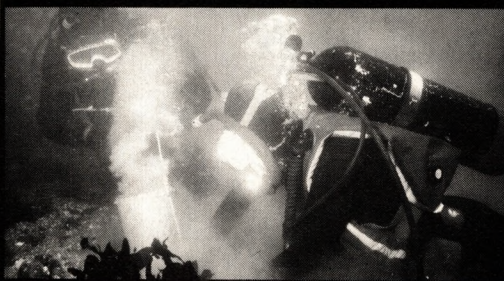
Like most clams, geoducks filter the water for food consisting of the microscopic plants and animals making up the bulk of the West Coast plankton. To accomplish this three to four feet below the seafloor they have developed a long, muscular siphon. This very phallic-looking organ is so large in proportion to the rest of the body that, when contracted, it cannot possibly fit completely in the geoduck's bivalved shell. (As a result, local divers have appointed a variety of descriptive names to the geoduck, most of which are not suitable for publication.)

Geoducks are found on soft bottoms

from the low tide mark to depths of 350 feet. Determined clam diggers have collected geoducks for years during minus tides in the Puget Sound area. One locates a geoduck by the presence of its siphon or a depression in the sand that indicates a siphon lies just below the surface. Once a “show” is found it becomes a battle of wills: That of the digger who must excavate four feet through usually dense, compacted sand and mud versus that of the clam who is perfectly happy to retract its siphon and wait it out at the bottom of its 50 to 100 year-old home. The geoduck usually wins. For those persistent (or crazy) enough to reach the clam's lair, the prize is well worth the effort. The body meat of the geoduck is usually served as steaks and has been compared to abalone, with a slight but



***Panope generosa*, the geoduck (pronounced “gooey-duck”), is the world's largest digging clam. It is found on the bottoms of bays and inlets of the Pacific Coast from California to Alaska. Upper left: The clam's siphon is too large to be retracted completely into its shell. Digging the clams out can be difficult.**



photos/courtesy Seattle Aquarium

not overpowering clam taste. The siphon is a bit tougher, definitely "clammy," and makes great chowder meat. The key to preparing geoduck is in the initial phase of blanching the washed and scrubbed siphon and body meat in near boiling water for 20-30 seconds, enabling it to be easily skinned. After this step the meat can be used in most recipes calling for immense portions of clam meat.

Attempting to excavate a geoduck underwater is complete lunacy. At best a diver might come away with the end of a siphon (which can be regenerated by the clam). Unearthing anything underwater is difficult at best, let alone a three to four foot deep ten pound clam. Recreational harvesting of geoducks is pretty much restricted to low tide digging contests.

Commercial harvesting by divers is another story. The potential of geoducks as a commercially viable food source wasn't realized until the late '60s when U.S. Navy divers discovered them in large numbers while recovering an errant prototype torpedo that buried itself in the bottom of Puget Sound. Subsequently the Washington State Department of Fisheries launched a geoduck population survey to determine estimates of just how many geoducks were out there. The numbers are staggering. It is currently believed there are 8,700 underwater acres of Puget Sound alone that could potentially yield approximately 165 million pounds of geoducks.

With the survey complete the next task was to develop a management plan for the geoduck fishery and the development of efficient and cost-effective techniques for their harvest. To date the most efficient method of collecting the king clam (a name coined by geoduck marketing strategists) is by divers using a hydraulic displacement system. Generally hookah is employed, with a 300 foot tether consisting of an air line as well as a one and one-half inch diameter water hose that terminates with an 18 inch ball valve. With around 100 pounds of water pressure the diver displaces the substrate surrounding a located geoduck. Experienced geoduck divers can collect up to 2-3 clams a minute using this apparatus. To make a living as a geoduck diver speed is of the essence, given the limitations of restricted bottom time. At 30-40 cents per pound a diver has to collect a lot of geoduck clams to realize a profit at the end of the day.

Developing management guidelines for the emerging geoduck fishery has had to take into account two major factors. The first is the method of their collection. Currently state regulations prohibit commercial collection in water less than 18 feet deep at low tide or 200 yards from shore. This represents an effort to protect beachfront owners around Puget Sound from being subjected to the negative aspects of collection; primarily noise pollu-

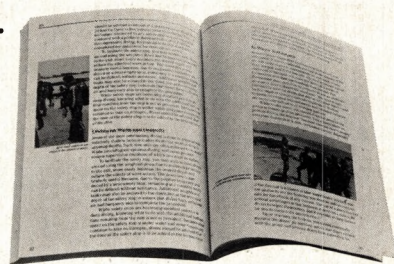
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GEODUCKS

tion from air and water compressors.

The federal Occupational Safety and Health Administration regulations also come into play, stating that diving operations in greater than 60 foot depths can only occur with immediate access to a decompression chamber—not a standard piece of equipment found on most geoduck boats.

As a result, geoduck divers are restrict-

ed to collecting in a narrow band between 18 feet (or 200 yards offshore) and 60 feet. While there appears to be a healthy population of king clams down to 350 feet, their harvesting awaits the development of a cost-effective technique for their collection.

Once on board, clams are stored in baskets or bins on deck. Surprisingly, geoducks can remain alive out of water for up to seven days and are shipped live to locations such as L.A., San Francisco, New York, Portland and Seattle. Clams destined for chowder meat are delivered to processing plants locally or abroad.

The second factor governing the man-

agement of any renewable fishery resource is how to identify the maximum sustainable yield. In other words, how many adult geoducks can be removed in a season while sparing enough reproductively viable clams to maintain the population. Given the estimated longevity of the geoduck, there is no question that during the short 12-15 year history of the fishery, only virgin beds are still being harvested. Currently, Washington State bases its management plan on a 20-50 year reproductive cycle. Tracts of underwater acreage are leased annually to geoduck harvesters for collection based on this and other information.

But the real future of the geoduck fishery may lie in current research in the mariculture of young clams for seeding in the wild. Washington State Department of Fisheries biologists hope to double the current annual catch of five million pounds by 1990, rearing juvenile geoducks (geo-ducklings?) in the lab and then reseeding previously harvested areas. The procedure is similar to most aquaculture techniques for bivalves. Adult geoducks are collected and brought into the lab. Geoducks usually spawn between February and April. To

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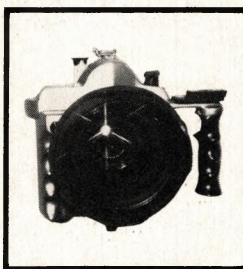
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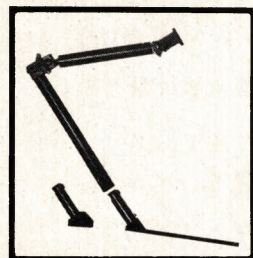
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JAPANESE GEODUCK SOUP (four servings)

- ½ Pound geoduck siphon and breast meat (in equal measure)
- 1½ Pounds of spinach, washed with stems removed
- 4 Cups of loosely packed watercress, washed, stems removed
- 4 Cups water
- 1 Two by six inch piece of kombu (kelp—available in Asian grocery stores)
- 12 Small mushrooms, trimmed and washed, then cut in half
- 1 Tablespoon of soy sauce
- ½ Teaspoon of grated, fresh ginger
- Juice from one lime
- Salt
- 3 Green onions, finely chopped for garnish (optional)

Cut the geoduck siphon and breast meat into thin slices.

Blanch the spinach and watercress separately in boiling, salted water. Drain, squeeze greens to extract as much water as possible, then coarsely chop and divide equally into four soup bowls.

Bring the four cups of water to a boil with the kombu, add the geoduck and let it cook for two minutes, or until it turns a light color. Remove the geoduck meat from the cooking liquid with a slotted spoon and divide it equally into the four soup bowls. Discard the kombu. Add the mushrooms and the soy sauce to the cooking liquid, bring it to a boil, add the ginger and lime juice and cook an additional minute. Season to taste with salt, then pour the liquid over the meat and greens. Sprinkle with chopped green onions if desired. Serve immediately.

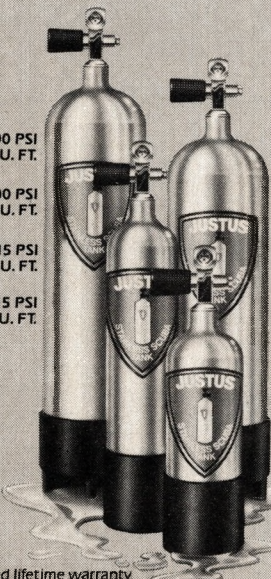
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artificially induce spawning, spring conditions are replicated with a rise in lab water temperature and an increase in microscopic algae concentrations to simulate a plankton bloom. Under these conditions, females release up to 20 million eggs and males a like number of sperm to fertilize them out in the water. The resulting free-swimming larvae are carefully collected and allowed to settle on screens. The larvae are fed a concentrated solution of microscopic algae (which also has to be grown in the lab) that cuts in half their metamorphosis from larvae to adult-looking baby clams from the normal 36-40 days to 18-20 days.

After 4-6 months the baby geoducks are one-half to three-quarters inches long and large enough to dig into a sandy bottom. Diving biologists take the lab-reared progeny out to the field and scatter them by hand over the bottom, acting like underwater scarecrows to keep hungry fish away for the first 15-20 minutes while the tiny clams dig their way to safety. As with many marine animals, mortality is greatest for the juveniles of the race.

It's too soon to tell how effective such techniques will be in maintaining a sustainable yield that will provide a healthy

SAUTEED GEODUCK (two appetizer servings)

- 1 Geoduck "breast" (body meat) cut in half lengthwise, then thinly sliced
- 3 Tablespoons of unsalted butter
- 2-3 Tablespoons of flour
- 1/2 Teaspoon soy sauce
- 6-8 Chives
- 1 Tablespoon of freshly squeezed lemon juice

Dredge geoduck in flour.

Melt the butter in a medium saucepan over high heat. When butter foams, add geoduck meat and cook for two minutes, turning several times, until meat is golden. Add soy sauce, continue cooking for another minute, then remove pan from heat and arrange the meat on a small plate. Chop the chives finely and sprinkle them over the meat, then squeeze lemon juice over it. Serve immediately, with additional lemon juice.

future for the geoduck industry. Recently the export market to Japan took a nose dive with the discovery of a similar (but slightly smaller) species now being commercially harvested in Japanese waters. The domestic market uses geoduck meat primarily in the chowder business.

While the geoduck may not win any prizes for its appearance or ease in pronunciation, it is definitely one of the more unique marine animals of the Pacific Northwest and one that may provide a dependable and manageable food source for the future. 

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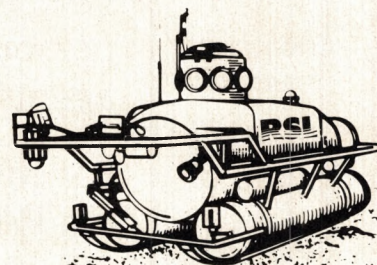
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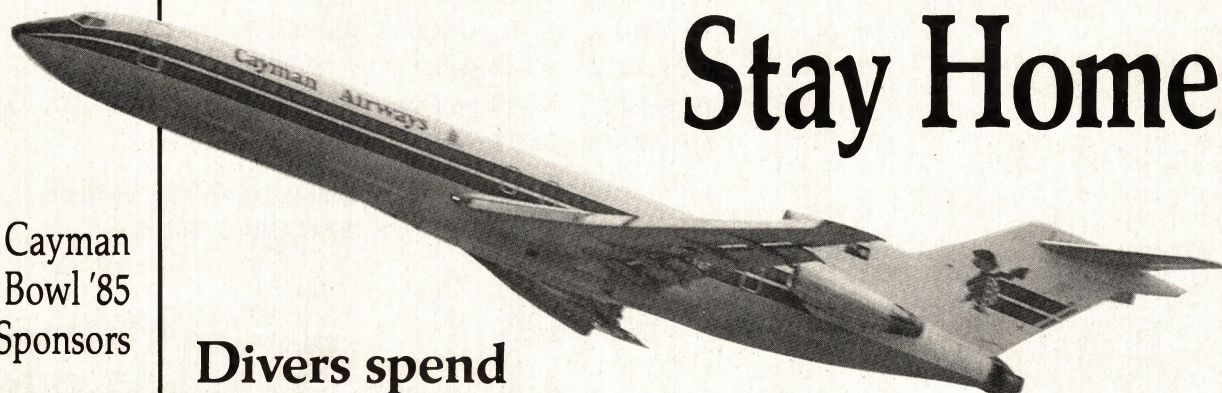


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SDM travel

SECTION

While unloading our gear after a great white shark expedition in South Australia last February, I heard someone calling my name. At first I didn't answer. After the high drama of the last ten days, I thought I might be hallucinating. But the voice persisted. I looked up and found my Australian sportsman friend, John, coming toward the boat. "So Amos, are you ready to go diving in Australia?" he asked mischievously. I looked at him as if he were crazy.

"John, what are you talking about? La Mer has had trips to the Great Barrier Reef and the Coral Sea for the last five years; I've been diving in Australia more times than I have fingers. What else is there?" John had a real Cheshire cat grin on his face.

"Amos, if you'd only been diving in Florida would you think you had seen all the diving the U.S. had to offer? Australia is a big continent and its diving is different from coast to coast. You've never been to the western coast before."

John had me there. I had never thought about other dive destinations in Australia. I guess I had gotten complacent: I thought I had seen it all. "Okay, John, tell me about diving in Western Australia."

"Tell you about it? I came to take you there!"

We flew to the beautiful city of Perth, the site of the next America's Cup Race. The following day, we flew 1,600 miles north along the western coast of Australia to the frontier town of Broome. It is really virgin dive territory. The only information that exists comes from diving diehards like John and data that have been collected by the marine biologists who have worked in the area.

The heart of Western Australia div-



AUSTRALIA All Year-Round

TEXT AND PHOTOGRAPHY
BY AMOS NACHOUM

ing is Rowley Shoals, a group of atolls 150 miles west of Broome in the Indian Ocean. Imperieuse Reef, along with Mermaid and Clerke Reefs, make up Rowley Shoals. Each of these reefs creates a lagoon ranging in diameter from 5 to 15 miles. The reefs are no more than two hours sailing time from one another. My first dive immediately showed me what John had been talking about.

It was the finest, most exhilarating drift dive of my life. In 50 minutes we crossed almost three miles of continuous, vibrant reef with visibility that ranged from 100-150 feet and water temperature in the mid 70s. The colors, the coral formations and the indigenous species of tropical fish rivaled anything I had seen from the Philippines to the Red Sea. Besides the excitement of exploring new marine life, Rowley Shoals offers a roller coaster dive experience in fast-changing tidal



waters. Tide changes in Rowley Shoals can be as high as 20 feet.

Far from shipping lanes and commercial fishing, this ecological system may be one of the last undisturbed natural environments on earth. We encountered unusual numbers of pelagics including eagle and manta rays and oceanic whitetip sharks, and we sighted billfish including swordfish and marlin. For the adventurous diver, Western Australia offers a chance to explore a new frontier, to encounter marine animals that shun the more sheltered areas typically visited by underwater tourists.

I was so taken with my experience at Rowley Shoals that I invited Dr. Eugenie Clark to join me in leading La Mer's expedition to Western Australia

travel

during the last two weeks of August aboard the 70 foot luxury motor sailer, *Jodie Anne*. This fully air-conditioned vessel, with her five double cabins; twin compressors, tanks and diving platform, is an ideal floating resort.

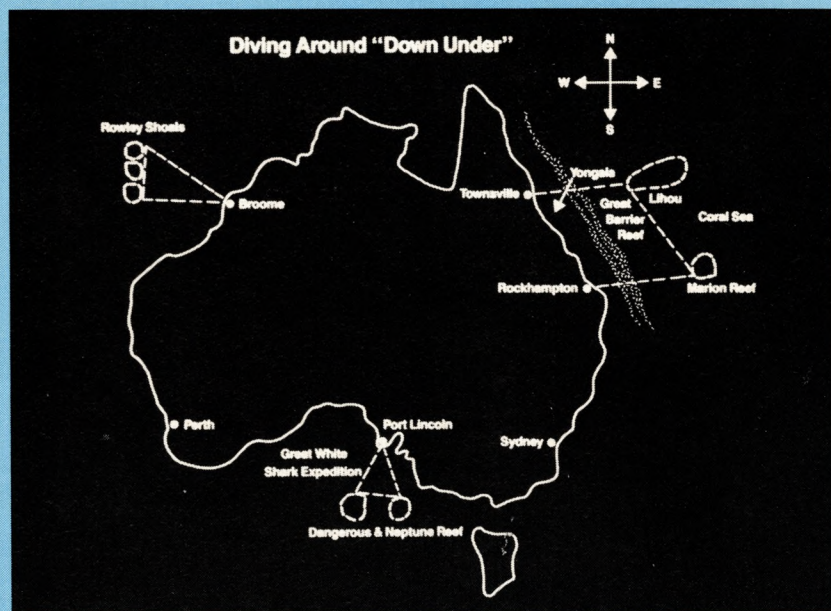
With the inclusion of Rowley Shoals in La Mer's trip roster, we can now offer divers a year-round variety of Australian diving experiences.

Australia's east coast is best known for the Great Barrier Reef, with its 1,200 miles of elaborate coral formations and exotic marine life. Out beyond the Great Barrier Reef is the Coral Sea, an environment totally different from the barrier reef. The reefs and atolls of the Coral Sea feature the clearest water in the world; visibility in excess of 200 feet is routine.

For our Great Barrier Reef/Coral Sea cruises we charter the 79 foot *Coralita*. Owned and operated by Captain Walley Muller, the *Coralita* is a superb floating diving resort, equipped with six air-conditioned double cabins, compressor system and diving platform. Muller has been navigating the Coral Sea for 30 years. Television crews from around the world have worked from the decks of the *Coralita*. Denise Muller is widely admired as one of the best sea cooks in the world.

La Mer cruises start in Yeppoon and end farther north in Townsville. In between, our cruising itinerary extends 150 miles east to the heart of the Coral Sea. During our journey we explore the massive walls and probe the endless networks of caverns of the Great Barrier Reef. Here divers can learn about this fascinating environment and dive with sea snakes. Although their bites are toxic, these snakes are not aggressive and can be handled if treated gently and intelligently.

From the Barrier Reef, *Coralita* proceeds to the extraordinary visibility and dramatic geological formations of Marion Reef. This 40 mile diameter lagoon is encrusted with endless, rich, colorful bommies (underwater coral pillars) that rise from the ocean floor to just 30 feet below the surface. From there *Coralita* sails to Lihou Reef encountering schools of shy reef sharks, massive colonies of anemones and giant clams. Then it's on to Abington to discover new glories of marine life that



include unicornfish, Maori wrasses, sweetlips, barramundi cod and endemic species of Pacific butterflyfish.

On the way back home we again cross the Great Barrier Reef to dive the spectacular wreck of the *Yongala*. This artificial reef is covered by invertebrates and is home to a family of potato cod (400 pound groupers). This comprehensive program is available from La Mer October-December.

But no discussion about diving Australia is complete unless it includes the great white shark. Out of Port Lincoln in South Australia, I lead a group of five adventurous divers every January/February. We join Rodney Fox, the world's foremost authority on the great white "pointer," aboard the 60 foot prawn trawler *Nenad*. There are no exotic coral formations here and except for the friendly colonies of sea lions that tolerate overzealous photographers the expedition might be considered uneventful. But those aboard the *Nenad* have no time to worry about that. She carries tons of bait. We spend our days and nights chumming the water, leaving a trail to attract our quarry.

This is the Mt. Everest of diving. Suspense builds as those on board join in the waitful watching for the first great white. A day passes, a second, then a third. The waiting puts nerves on edge. We each put \$5 in a pool that will go to the first person to spot a great white.

Suddenly the water explodes in eyes and mouth, freezing all activity on board. Everyone stands, paralyzed by the appearance of this magnificent

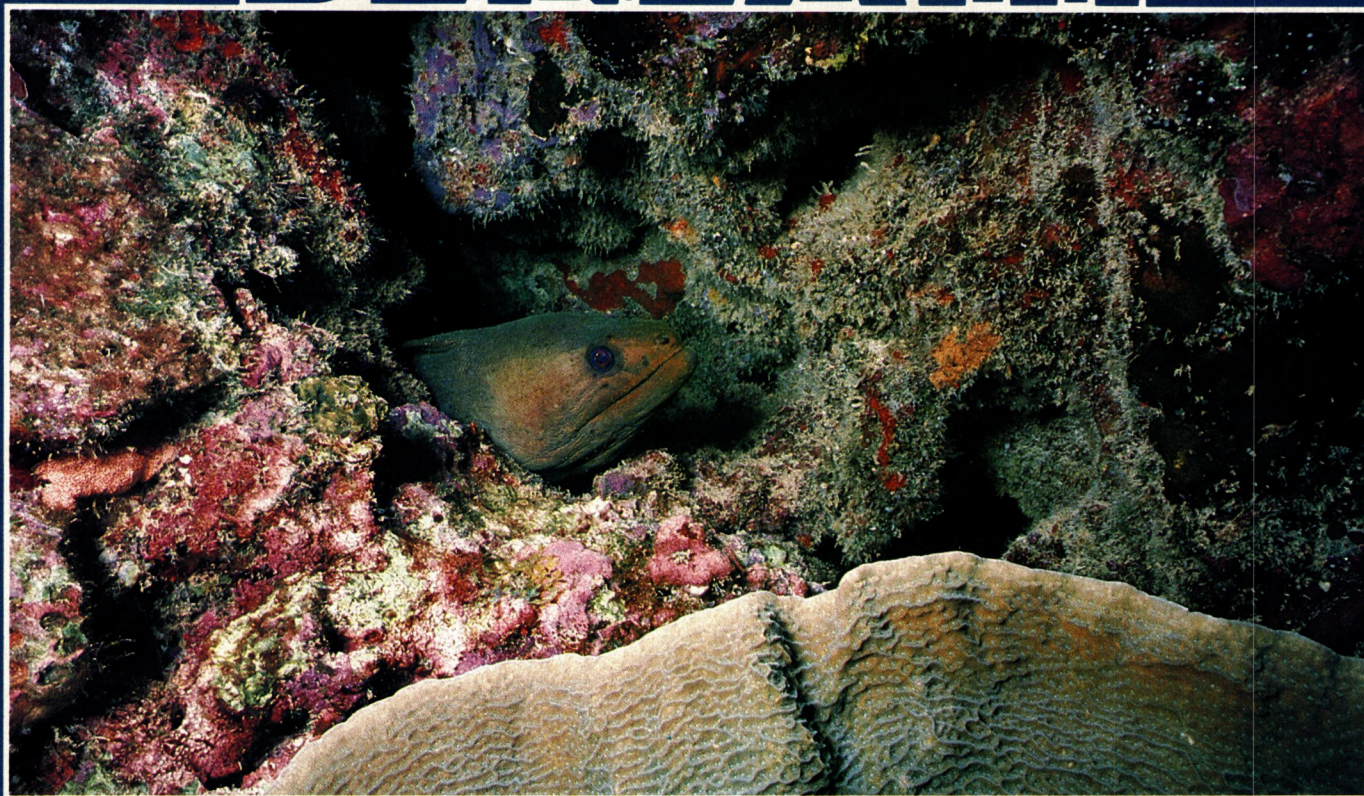
creature. At first there is apprehension. Even with the protection of the shark cages (there are three on board), it is hard to get into the water with this primitive animal. Then its realities overcome the myths. It is after all, just an animal, all instinctive reaction. Its movements are automatic responses to external stimulation, occasionally clumsy and forced.

As we learn and understand more, we all seek the chance to share its world. So far, all of our great white shark seafaris have been successful, meeting up to nine animals, sometimes two or three at once. The largest was 17 feet long. After their initial hesitation, expedition members have been known to spend as many as six hours in the water on a single dive. Our shark cages have special photographic ports and looking through a camera viewfinder, the animal seems small, manageable. We want to get closer. Then it charges and shakes the cage and we retreat to the far side. "There's nothing to see after the great white!" says one expedition member.

I can understand that sentiment. But I've come to understand that there's always something new and unique to experience: The Great Barrier Reef, the Coral Sea, Rowley Shoals and the great white; there's something to satisfy all divers.

For information about La Mer and these diving expeditions to Australia write: La Mer Diving Seafari, Inc., 823 United Nations Plaza, Suite 810, New York, NY 10017 or telephone (800) DIVE-NOW; in New York (212) 599-0886; telex 238973 AAIL.

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Southern Treasure



BY DENNIS CHAMBERLAND

photo/courtesy Dive Locker

Hang a right, south bound on I-26 at the West Montague exit within the North Charleston, South Carolina city limits. Just two blocks later you'll be standing on a shoreline nestled neatly between North Charleston city streets, palmetto and moss laced trees. It sports an attrac-

tion not exactly native to the Old South; one that would have made General Lee himself stop for a second look. This urban attraction is, believe it or not, a dive spot. It sports sunken treasure, wrecks including boats and aircraft, its own network of caves, crystalline water and a

mermaid. No, this is not the edge of the Devil's Triangle, but a few miles inland at one of the most innovative and spectacular underwater parks ever. It doesn't take very long to understand why they've called it Treasure Lake.

Bob Johnson is owner and chief brain



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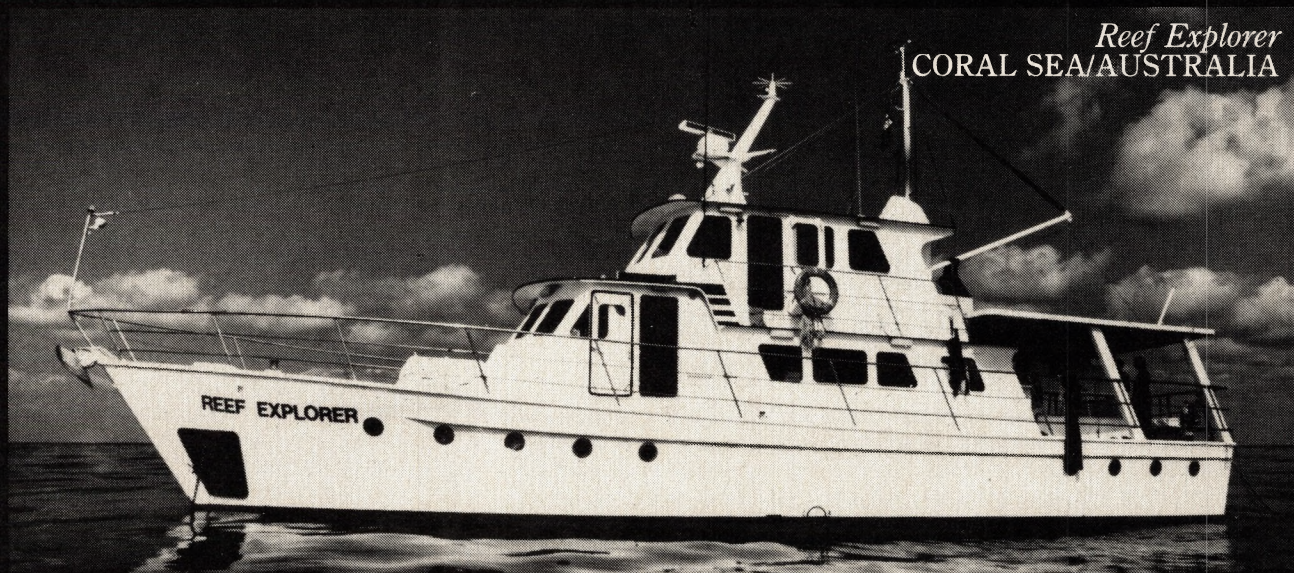


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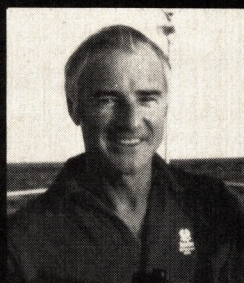
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SOUTHERN TREASURE

trust of the park and associated businesses. One of the reasons he established the facility was to keep his professional divers occupied between jobs. Treasure Lake is a spring fed lake of uniform depth that sits on the edge of Johnson's commercial diving operation, UC & D Inc., and his retail scuba store, the Dive Locker. Johnson's 19 employees are kept busy supporting both businesses and acting as guides, encouraging those lucky enough to "dive the course."

The facility is impressive enough: two hyperbaric chambers—one mobile unit and one in-house. It has classrooms to house UC & D's commercial diver training schools and those affiliated with the Dive Locker. The commercial diving side consists of mobile dive trailers, extensive air facilities and some medical facilities supporting the hyperbaric cylinders. Of course, the sport diver cannot miss the well stocked Dive Locker, which offers rentals at very reasonable rates.

Johnson and a close associate, Victor Schwartz, have unleashed their innovative genius on the lake. In six months, Treasure Lake was transformed from just a body of water catching stray golf balls from a driving range to a full blown underwater playground. They have actually placed three aircraft, 68 feet of simulated caves, two boats, a tractor, a diving bell and a mermaid on the bottom along a winding, mile long U/W compass course.

Johnson and staff continually maintain their park by "mowing" the underwater paths of excess underwater grass and washing down their planes and boats with an underwater fire hose.

It doesn't take long to appreciate this unique sport diver's facility. The water is crystal clear—40 foot plus visibility—constantly renewed by the springs and freshened by the underwater grass. A run through the submerged park is a thrill a minute. No diver I've ever met would want to pass this course up. It has all the elements that make a dive to remember. The boats, aircraft, etc. on the bottom have been cleared of safety hazards that could catch an unwary diver. Sitting in the cockpit of an Aero Commander 17 feet beneath the surface is an experience not easily forgotten. Or, prowling through the bridge and galley of a sunken 34 foot Chris Craft at 20 feet is just plain worth the air.

For the diver who doesn't fancy wreck diving, it's interesting to try the compass course itself. There's not a more exciting place to learn this art than at Treasure Lake's mile of submerged attractions. (There may be a few divers who can do it without stopping to look at the Aero Commander!) As a note of caution, if a diver can make it on a single 72 they'll

(Continued on Page 118)

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Few know this island better. He has named many of its dive sites and some still remain his personal secrets. After years of guiding thousands to spectacular underwater adventure spots, he is, especially with those who frequently return, one of Bonaire's most popular dive operators.

Bruce Bowker first came to the island 12 years ago. After six years spent keeping Cap'n Don Stewart's divers happy, he decided it was time to build his own resort. But Bowker was not interested in operating a high volume hotel; he wanted to offer personalized attention while allowing his guests to experience the real atmosphere of the island.

When Bowker and wife Liz originally purchased the Carib Inn, there were few rooms and no dive operation. From that beginning they developed the inn into a popular, and intimate, getaway with only seven rooms. Able to accommodate up to 20 persons, they prefer to keep the number to seven couples.

All of the air-conditioned rooms surround a courtyard pool. Each has its own refrigerator and bath and two are complete efficiency apartments with living room/kitchen and separate bedroom. Another, a studio apartment, has its own kitchen facilities.

The advantages to such an arrangement are obvious. Individuals desiring privacy and not interested in a hotel regimen can prepare their own meals or sample any of the fine restaurants within a ten minute walk. Bruce and Liz frequently recommend guests try the English cuisine at the Beefeater; French at the Bisto des Amis; the China Garden or Great China for Oriental; or the Zeezicht for local seafood and an ocean view.

The Carib Inn is also unique in its way of packaging diving with hotel accommodations. Diving and rooms may be purchased as a package or individually. If you do not prefer dive packages, rent a tank for the day and explore any of Bonaire's popular beach sites. If you want to have an expert guide, or want to get out to some of the top Klein Bonaire reefs, Bruce or dive guide Bubi Muller will take you and a small group of other divers for a single tank morning or afternoon boat trip. Either way, once you rent the tank, it is yours for the day. By simply paying for

A Small Resort With A Big Heart

TEXT AND PHOTOGRAPHY BY STEVE LUCAS

additional air fills you can get in a great number of daily dives for a small price.

In addition to diving, there are plenty of other island diversions. By renting a car, you can go north into the steep hills of the Washington/Slagbaai National Park. There you can see many types of exotic birds including the Caribbean parrot and flamingo. Flamingos are common at the salt lake of Goto Meer, near the park, or to the south of the island at the salt pans. Also near the salt pans, where salt is made from seawater by solar evaporation much as it was 100 years ago, are the tiny stone huts built in the mid 1800s when salt was made with slave labor.

If diving is your primary reason for a Caribbean vacation, Bonaire is a perfect choice. With year-round flat, calm, clear water, it is the rare island where a vacation is almost never lost to bad weather. Its arid, cactus covered terrain has that perfect combination of breeze to make the day comfortable, clouds to make the sky beautiful and sun to make you know you are in the islands.

The reefs near the main island, or offshore island of Klein Bonaire, are legendary. Carl's Hill, one of the most popular of all the sites, has hundreds of pastel to vivid purple and red sponges of all shapes and sizes. Along its drop-off the reef seems to continue forever into the cobalt, deep water.

On the near side of Klein Bonaire is an area Bruce simply calls Sponges. A more perfect name could not be conjured. On a sloping wall of pure white sand, enormous sponge conglomerations are clumped in isolation like underwater islands. Rarely dived by anyone other than Bruce and his guests because of a difficult anchorage, this is one of those few places where you can believe you were the first to dive.

Before dive boats became popular on the island, one of Bruce's favorite sites,



photo/Geri Murphy

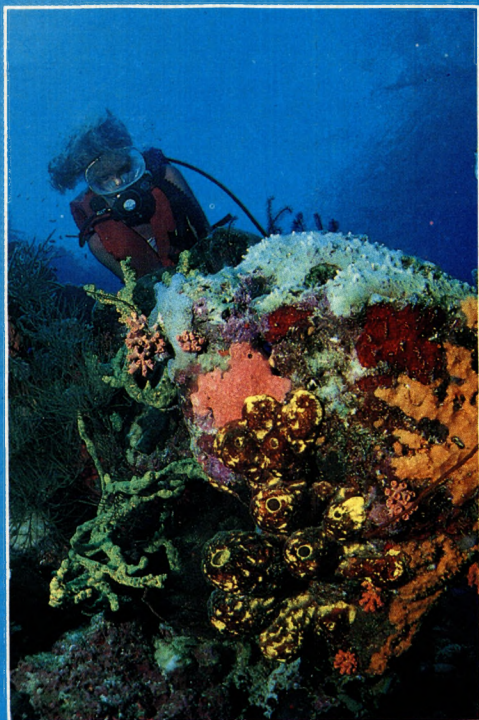
Top: Dive operator Bruce Bowker. Above: ALM has nine flights per week to Bonaire from Miami, FL. The Saturday and Sunday 6:15 pm flights are direct; the primary destination of the 2:00 pm flights is Aruba, with connecting flights to Bonaire.

Rappel, was all but impossible to reach. Named after he and a friend literally rappelled a steep cliff wall in full gear to dive, it has become one of the island's favorite sites. Directly beneath the cliff, several undercuts form cavern-like openings in its submerged face. One is frequently home to a large jewfish. In 50 to 60 feet the reef drops away and is completely overgrown with corals and sponges.

Another of Bruce's private sites, Divi Divi Tree on Klein Bonaire, is an underwater anemone garden. Almost every rock has one or more of these pink tipped animals clinging to its side. As the water deepens, enormous vivid orange elephant ear sponges, sometimes eight feet long, siphon nutrients from the water.

Bruce has many other special sites rarely seen by divers from other island operations. In addition, he makes regular visits to all the popular Bonaire sites.

For complete package information you can write directly to Bruce Bowker at Carib Inn, P.O. Box 68, Bonaire Netherlands Antilles; telephone overseas direct: 011-599-7-8819. 🐠



The Carib Inn is an intimate resort with seven air-conditioned rooms—each with refrigerator and bath. Two rooms are complete efficiency apartments. Far left: Sponges at Carl's Hill. Left: The pool and courtyard at the Carib Inn. Below: Observing an anemone at Sponges.





UNDER PRESSURE

Superior Court Judge Completes College Of Oceaneering Diver Medic Course

TEXT AND PHOTOGRAPHY BY CHRISTOPHER SWANN

In 14 years of dispensing justice on the Los Angeles Superior Court, Judge William Drake has heard a great deal of testimony, much of it—Perry Mason notwithstanding—pretty dull stuff. But, when Jim Joiner, president of the College of Oceaneering, took the stand in his courtroom as a witness to a collision between a train and a tanker-truck that had occurred on

the college's doorstep and the judge heard the words diving school, his interest was greatly stimulated. On dismissing the court, he instructed Joiner to wait for him in his chambers.

Joiner, not surprisingly, viewed the command with trepidation. Quaking in his boots, he awaited his fate, only to have the judge creep up behind him and thrust

under his nose a photograph of a young man in the canvas dress, copper breastplate and lead-soled shoes of the traditional deepsea diver. From 1936 to 1948 Bill Drake had been a U.S. Navy Master Diver trained in submarine rescue. If Joiner didn't mind, would he talk to him about diving for a few minutes?

The judge was fascinated by the



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WILLIAM DRAKE

sweeping changes that have taken place in diving since the '40s, by the contrast between the old gear and the new: lighter, less encumbering helmets; hot-water suits; the routine use of mixed gases for deep diving; even articulated, "armored" suits capable of taking divers as deep as 3,000 feet.

The judge wanted to hear more, so he invited Joiner and his wife to the Los Angeles Adventurer's Club to hear a talk by a fellow member, National Geographic photographer Ralph White, on the expe-

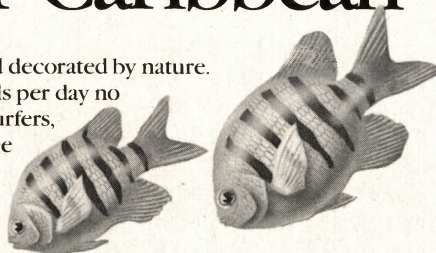
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dition to the wreck of H.M.S. *Breadalbane* in the Canadian arctic. To add to the atmosphere, Joiner brought along the "stuffed diver" in the old Navy deepsea dress that graces the lobby of the College of Oceaneering. Bill Drake was filled with nostalgia. Was there any way, he wondered out loud, that he could get back into diving?

The answer came from Jim Joiner's wife: Why not take the college's diver medic course? Its purpose, she explained, was to train recent diving school graduates and divers from the field to provide immediate treatment for diving accidents on offshore oil rigs and other remote locations. Bill Drake jumped at the suggestion. The next morning he went down to the school and signed up.

The judge's involvement with diving began in 1932 at the age of 14 when, as a self-described "box-car bum," he attended a lecture and film show given by John D. Craig, the diving adventurer. With

Craig was Max Nohl, an engineer who in 1937 would make a record dive to 420 feet in Lake Michigan. On exhibit at the show there was not only the usual stuffed diver, but a stuffed shark as well. To the young Bill Drake it was all a revelation: He cornered Craig and asked how he could become a diver. Simple, said Craig: join the Navy. And that, the minute he was old enough to enlist, was what Bill Drake did.

The diving career that followed began with a three year tour of duty with the Asiatic Fleet aboard destroyers and submarines and went on to include stints as a submarine escape instructor at New London and Pearl Harbor and duty as a



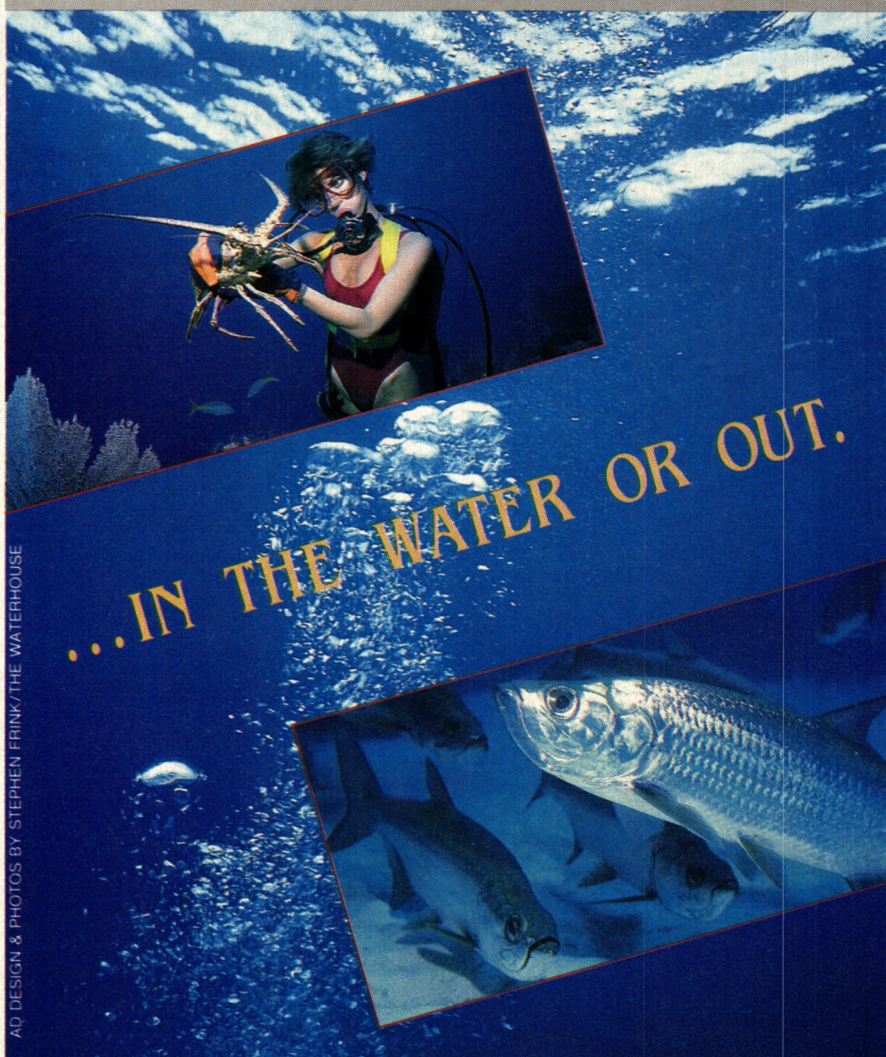
diver with submarine rescue vessels in the Atlantic and Pacific. On one occasion he descended to 306 feet on air (helium-oxygen mixtures not being in general use at the time), a dive that few divers today would want to attempt.

After 12 years of, by his own admission, enough adventure for a lifetime, one might have expected that, on hanging up his hardhat and shoes in 1948, Bill Drake would have settled down to a quiet life at the neighborhood hardware store; instead he went to Los Angeles and became a policeman. Amazingly, he still found time to attend law school at night and 10 years later he began practicing law. His appointment to the Los Angeles Municipal Court by then-Governor Reagan followed in 1968; his elevation to the Superior Court in 1971.

The diver medic course the judge embarked upon begins with five weeks of pre-enrollment home study, followed by a

(Continued on Page 82)

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WILLIAM DRAKE

(Continued from Page 79)



four week practicum divided into three weeks at Daniel Freeman Hospital Paramedic School and one week at the College of Oceaneering. The course at Daniel Freeman is essentially similar to that of the Emergency Medical Technician Level 1 (EMT 1), with a number of important additions: unlike EMTs, diver medics are trained to start I.V.s, splint fractures, treat wounds and suture. They are also taught to pass various catheters. Along with the other students, Bill Drake was required to assist at the Martin Luther King Hospital emergency room and put in a 12 hour shift with an ambulance crew. For good measure, he also volunteered an extra 10 hours at the Santa Monica Hospital emergency room.

It is in the final phase, at the College of Oceaneering, that, according to Bill Drake, the whole thing comes together. The credit, he says, must go to the instructor, Dick Clarke. An expert in diving accident management, he has devised what are called sham treatments in which diving injuries and diseases are simulated under pressure. The procedure calls for one student to act as the medic, a second as the patient, with two additional students operating the chamber on the outside. On the initial runs Dick Clarke accompanies the students in the chamber to set the scene of the accident and observe as the student diagnoses the patient from symptoms he throws at him and then begins treatment. Each situation is taken from an actual case history in the field and in many instances the student must first rule out symptoms from a current complaint or prior injury before arriving at the correct assessment. When intravenous fluids are called for or a bladder catheter must be passed, lifelike

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training models are used. Throughout the exercise the CO₂ level in the chamber is raised to cause mental confusion. Dick Clarke provides additional stress by harassing the medic mercilessly, thereby substituting for a rattled supervisor yelling over the chamber intercom.

On the last day of the course the students are subjected to what is considered the most stressful situation they will encounter in the field: a diagnosis and treatment at 165 feet on air. Medic and patient are compressed to depth in 90 seconds, the heat and noise of compression and the effect of nitrogen narcosis on the ability to concentrate combining to make for a highly realistic test of the student's abilities. On this dive each student must take vital signs, start an I.V. using the injectable training arm and carry out a bladder catheterization. As Dick Clarke says, the student who comes through this test with flying colors should be able to cope with most situations offshore.

At the conclusion of the course those who have passed the hospital phase of the training are graduated at EMT Level 1. Those who are successful in the diving medical phase are also certified as diver medical technicians.

For Bill Drake's classmates certification as diver medics brings immediate and tangible benefits in the form of employment opportunities and broader-based professional knowledge; but what of Bill Drake, back in his courtroom once again? To what use will he put his new-found skills?

One practical possibility he sees is that, as a retired judge with his special knowledge, he could serve as a consultant, counsel or arbitrator in diving accident cases. And, with the diver medic course still fresh in his mind, why not offer his services to the College of Ocean engineering and paramedic schools as a guest lecturer on the legal aspects of emergency medical treatment?

But, it is when he speaks of travel and his fascination with S.E. Asia that one begins to see where his renewed involvement with diving might lead. Bill Drake understands the all-important difference between the tourist and the traveler; that to really see a country you need to meet people, get involved—and to do that you need a foot in the door. In S.E. Asia there is a lot of oil and a lot of diving. A retired judge turned diver medic, who enjoys the camaraderie of working divers, might just find that door ajar. 

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The second annual Scubawomen's Dive will be held on September 7 aboard the *Dolphin*, out of Barnegat Light, Long Beach, NJ—captained by Kathy Littel. The two wreck trip is for intermediate and advanced divers and is an opportunity for women to hone their diving skills in a relaxed, non-competitive atmosphere.

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So You Want To Be A DIVE INSTRUCTOR?

BY PAUL HOWE

One question that many students ask when going through their basic certification course is "How do you become an instructor?" A quick explanation is usually that there are graduated steps for higher education in scuba diving, just as in most other fields, and that most advanced courses are available at the local dive shop. I often think that not enough time may be spent explaining just how to become an instructor. These inquiries and this enthusiasm are great for the sport.

So what is the first step in becoming an instructor? Well, the first and biggest has already been taken by going through a basic scuba course. This orients you to the new underwater world and gives you a solid background to the principles involved in diving. It also gives you some limited experience in handling yourself underwater with scuba gear. A basic certification course is just that—basic. It gives you something to start with. Once you are certified, get a few dives under your weightbelt and go on to the next level of certification.

OPEN WATER COURSE

An open water course starts you working with underwater navigation by learning to use compass headings and also natural markings. It also introduces air consumption and its correlation to depth, cold and energy expended. This is a short course, but is an experience for new divers and as you become more acquainted with your new surroundings and your scuba gear you will be more relaxed underwater.

ADVANCED OPEN WATER

The advanced open water course is excellent and really gets divers into some aspects of diving they may be hesitant to try without the supervision of an instructor. A lecture and book go into detail on some aspects of more important fields of diving. A few of the dives required are invaluable to the novice diver. One of these is a night dive and though it may sound scary to novices, with the guidance of your instructor, this dive usually is the highlight of the course. Aside from the weird feelings induced by darkness enveloping you and depending on a flashlight to see, divers see creatures they do not see during day dives.

Another "goodie" included in this course is a deep dive, usually to around

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60-80 feet. This may sound deep to those who haven't ventured past 40 feet, but again, with the direction of your instructor, it is a good way to introduce you to this phase of diving. Though you never exceed the time/depth limitations of the decompression tables, you will hang at 10 feet to simulate exactly what you would go through if a decompression stop had to be made.

The advanced course also furthers your underwater navigational skills, which helps immensely when you come to your deep and night dives. All in all, I recommend that all divers continue on to at least this point of certification, as the knowledge and experience gained really are well worth the cost of the course and the time involved.

DIVEMASTER

The next step is divemaster. This certification enables you to be a group leader and trains you for that responsibility. This course varies with instructors, but essentially what is required is assisting an instructor with courses and acting as a safety diver. It gets you into leading and planning dives for groups. Some written work is required to make sure you're acquainted with emergency procedures and facilities. Basically, the course is designed to introduce you to, and make you comfortable with, the responsibility and

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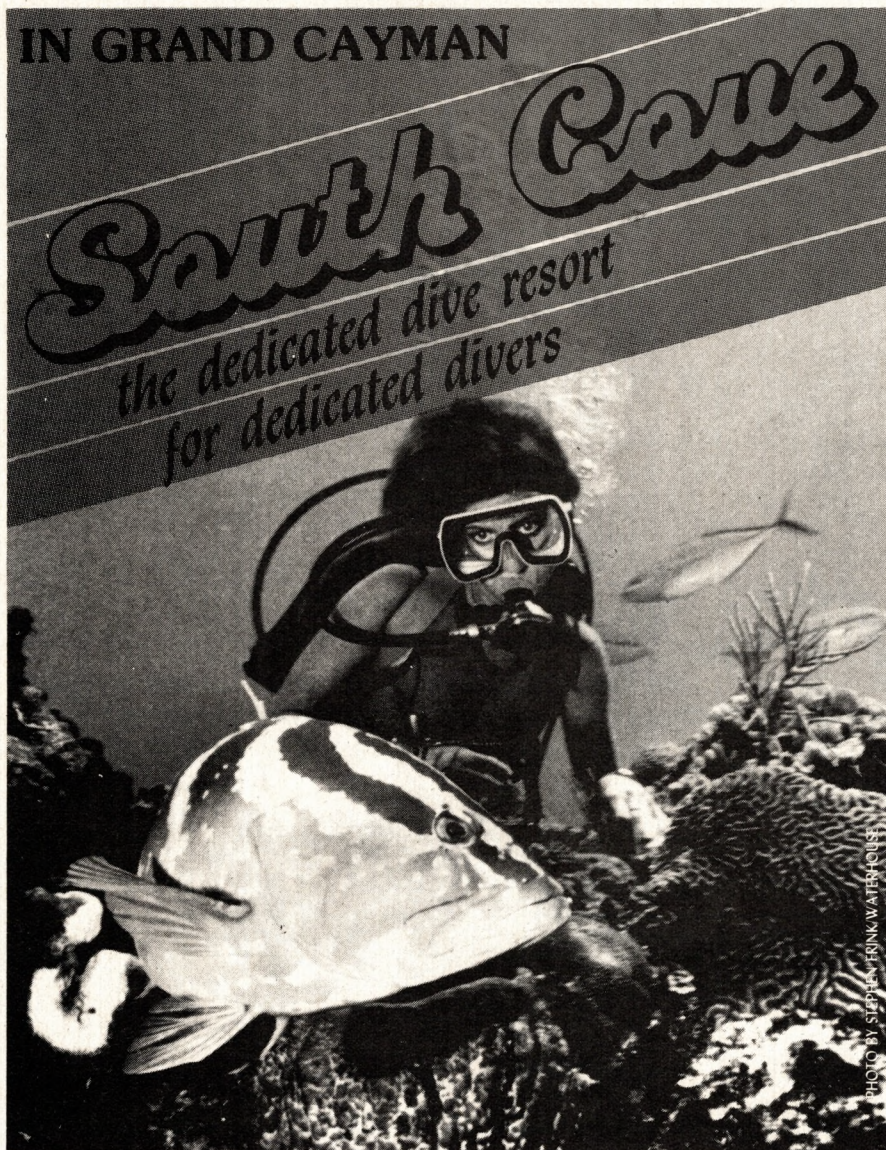
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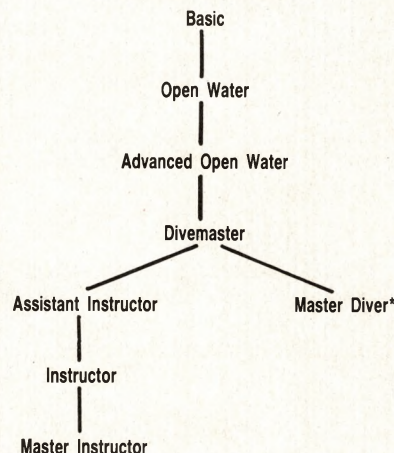
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certification is great for employing this aspect.

ASSISTANT INSTRUCTOR

Well, now you're getting real close. The next step is that of assistant instructor. With this, you may certify skin divers and assist your instructor, under his direct supervision, in teaching beginning scuba diving. The course has you prepare lectures, pool demonstrations and organize classes with your instructor's guidance. It really helps give you experience talking to and demonstrating diving skills and techniques in front of actual students. This is an extremely important aspect of teaching, to be able to work with groups of people and be comfortable and interesting. Good communication is the key to any successful teacher. This course very nicely gets you into understanding and applying techniques of teaching scuba diving and gives you a chance to develop your art of speech.

If you do not wish to teach or wish to complement your teaching with some specialty courses, you can become a master scuba diver. By taking any five of the specialty courses offered, you may be certified as a master diver. The other positive point about taking specialty courses is that you may wish to teach some of them after receiving your instructor's rating and having been certified in certain specialties helps obtain permission to teach in those areas.

(Continued on Page 120)

THE STOLT DEGALI

TEXT AND PHOTOGRAPHY BY HERB SEGARS



Ron Sorensen swims over the *Stolt Degali*. Right: Sunfish can be found near the wreck in summer.



It was 10:00 am on the day before Thanksgiving, November 25, 1964, when the *Stolt Degali* left the Marcus Hook Sun Oil Company wharf near Philadelphia, Pennsylvania. The 12,723 ton Norwegian tanker was en route to Rotterdam, the Netherlands. In her holds was vegetable oil and her itinerary listed only one stop, Newark, New Jersey.

At that very hour, excitement was commonplace among the soon to be passengers of the 25,338 ton Israeli passenger liner *Shalom* as they prepared to leave their homes for the ship. Sailing from New York to the sun drenched islands of the West Indies, the 629 foot long queen of the Israeli merchant marine fleet would carry 616 passengers and 460 crewmen.

At 2:22 am on Thanksgiving day, the Coast Guard in Boston, Massachusetts received an almost unreadable SOS from a ship they could not identify. They immediately teletyped the Coast Guard New York station to verify the transmission. At 2:23 am, the Coast Guard station in Moriches, Long Island received an SOS from the tanker *Stolt Degali*. The Coast

Guard immediately sprang into action, dispatching cutters, helicopters and fixed wing aircraft to the rescue.

The unthinkable had happened; in the heavy fog and driving rain off the New Jersey coast, 17 miles northeast of Barnegat Light, the two behemoths had collided. The *Shalom* hit the *Stolt Degali* just adjacent to the crew's quarters and the *Shalom*'s momentum, combined with the thrust from her 25,000 horsepower steam turbines, propelled the luxury liner completely through the *Stolt Degali*, shearing the tanker in two. The force of the impact pitched crew members aboard the *Stolt Degali* into the 55°F water. Rescue efforts were of the utmost importance for the cold water would quickly claim those in its grasp. Around 4:00 am, the first Coast Guard helicopters arrived on the scene and for many of those in the water, it was too late; 19 crew members would die that morning.

The rear section of the *Stolt Degali* sank almost immediately while the front section remained afloat, providing a temporary haven to Captain Kristian Bendik-

sen and ten of his men. Using magnesium flares to provide adequate lighting, Navy and Coast Guard helicopters, along with five surface vessels, braved the rough seas and high winds to rescue the band of 11. Fourteen other crew members were either plucked from the pounding sea or rescued while clinging to cap-sized life rafts.

The *Shalom* suffered a 40 foot gash in her bow but remained afloat. The crippled liner limped back to port under her own power, arriving at the Canal Street pier in New York City at 3:10 pm. Only one passenger was injured.

In spite of poor sea conditions, the forward section of the *Stolt Degali* was taken under tow and returned to port. She was initially refused entry by the Army Corp of Engineers who were afraid the dismembered ship would sink and clog one of the shipping channels. She was later towed into Gravesend Bay, outside of the Narrows, where she was partially salvaged.

The *Stolt Degali* now provides a true diving mecca for divers from New York and New Jersey. Almost every summer weekend, boats from Long Island and New Jersey ferry their contingency of divers to the wreck. The stern section of the tanker lies in 130 feet of water with her bulk rising to within 65 feet of the surface. This rise of 65 feet provides diving depths for almost any level of diver. About 15 miles offshore, the *Stolt* is washed by the clear waters of the Gulf Stream as it begins its late summer swing close to the New Jersey shore. This is New Jersey diving at its absolute best. The passages stir memories of that Thanksgiving night back in 1964 when tragedy struck. Hatches lie open, beckoning the hardy to explore her deepest secrets. Such remnants of the '60s as dinnerware, silverware and personal belongings of the crew are still being recovered.

For the underwater photographer, the *Stolt Degali* offers an opportunity not usually found in New Jersey waters. At depths of 80 to 90 feet, the photographer can roam the upper structures of the ship with little fear of stirring up that dreaded backscatter-causing sediment so prevalent on shallower wrecks. The sides of the tanker are now covered with fields of beautiful cold water anemones, swaying in the nutrient rich waters. The passages are overgrown with algae and sea anemones while schools of bergalls circle the ship's structure continuously.

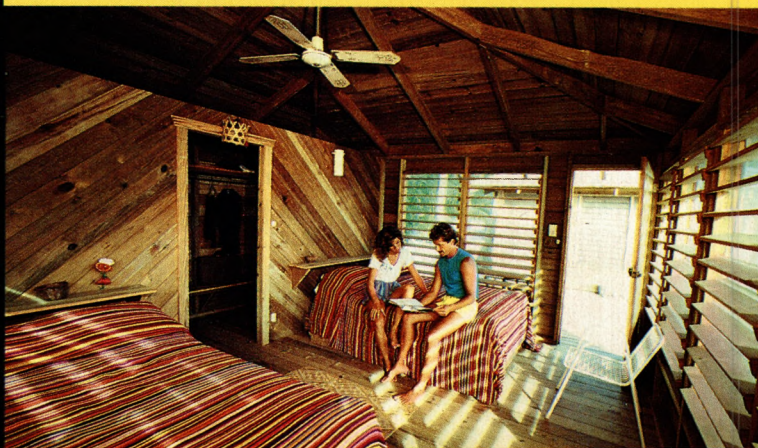
From Avon or Manasquan, New Jersey, the trip to the *Stolt Degali* takes about an hour and a half, while Long Island divers are in for a slightly longer ride. Since it is a popular wreck, many trips are run there each summer. To obtain more specific information, contact any of the area dive shops—they can refer you to boat captains who frequent the wreck. Visit the *Stolt Degali*—I'm sure that you too will be smitten with *Stolt* fever! 



Anthony's Key Resort



Top: Anthony's Key—one of the world's most picturesque dive resorts. Below: Anthony's Key bungalow. Left: Peter Hughes and Mandy Wagner at Peter's Place. Above: Pre-dinner drinks.



The view from the restaurant sundeck is picture perfect. Bailey's Key is a palm-studded silhouette back-lit by an orange sun ball that will soon disappear in a sparkling sea. To my right is the incredible Anthony's Key—the postcard image of a perfect tropical island with its grove of slender palms encircled by white beach and rocky outcrops. A small sailboat with a brightly colored sail, a brown skinned boardsailor and an old fisherman paddling a canoe share the smooth waters of the languid lagoon. The warmth of the Caribbean sun on my face reminds me I am in paradise again.

Within this vision of tropical loveliness, this place of green wilderness and a shimmering sea, are wonderful memories. I have been here, I know, more than any other travel writer, having made my first visit more than 13 years ago. I have taught scuba instructor and my first Car-

Central America's Most Popular Dive Hotel

TEXT AND PHOTOGRAPHY
BY RICK FREHSEE

ibbean underwater photo courses; made my deepest dive; fallen in love; and met Peter and Alice Hughes here. I try to maintain an air of objectivity, but to be honest with you, I love AKR.

Tomorrow I may dive and then again I may not. I may instead walk through Sandy Bay and talk with and take photographs of the children in the village. Or, I may swim out from my bungalow and clear my lungs free diving in the lagoon. Or, I may read or write in the morning and play volleyball in the afternoon. A curious kind of narcosis grabs most people when they come here; a kind of euphoria. There is no known antidote, primarily because no one wants to be cured. Anthony's Key Resort has no television, no traffic, no commercialism outside of the diving, which is more organized than spontaneous out of necessity. About the only other planned activity is the late afternoon volleyball game, more social than athletic, between guests and pests (staff). It is rare to find anyone who has been to Anthony's Key Resort and doesn't want to go back.

If I dive, I will probably jump aboard *Macavi*, one of three 40 foot island boats built in the little town of Coxen's Hole, and go with the small group to the Bear's Den. I haven't been there for awhile and I may snake my way through, beneath all

that reef, to photograph the silvery sweepers that flit about in the big opening we call the Cathedral. Or, perhaps I will ask Julio if I can take the sportsfisherman out to the Eagle's Perch, just down from Bailey's Key. I know that area well and never tire of taking pictures there. It is a pinnacle of coral nearly 90 feet tall and festooned with sponges, fans and corals. I can find 75 percent of all the dive sites myself; I probably could be a guide here. I know I could live here.

Anthony's Key Resort is off Roatan, one island in a group of islets and cays known as the Bay Islands. In the western Caribbean, they are 35 to 70 miles off Central America's Honduran coast. For the past several decades, Roatan has let the temptation to be exploited and developed pass it by. Bay Islanders, perhaps, possess a rural wisdom that has them thinking ahead by remaining behind. AKR is best known as a diver's resort and that's because of Peter Hughes—he began his career here as a divemaster. Today he is one of the owners and although he doesn't live here, he visits often. The other four owners are Bay Islanders, including Julio Galindo, the resort's executive manager and Peter's longtime friend. Anthony's Key is still a sleeper by international standards. It is not one of the largest dive resorts in the Caribbean but, by nearly everyone's standards, it is one of the most beautiful. It looks more like a south seas plantation than a diver's resort or hotel (the key itself was formerly a coconut plantation). The main house is an open-air restaurant that includes several sundecks, a patio, a lounge and a recreation room. The kitchen is connected by wood walkways to the office, reception and living areas. Natural wood bungalows are grouped in pairs, triples or quads and are perched on the slope of a big hill (or small mountain) out from the main house down to the edge of the lagoon. The remaining cabins (there are 48 rooms) are spread around the perimeter 100 yards away on the little island called Anthony's Key. Each bungalow has a private sundeck with a hammock. Inside is a large double bed, a bathroom with shower and a small refrigerator.

The only way to see the whole resort at a glance is on the hotel map in the reception office. Roatan is so lush and forested with palms, pines, fruit and flowered trees that you can only see parts and pieces of AKR in a single view. I like living on the key, but others prefer the main island. It makes little difference as everything is close. A small ferry boat runs to and from Anthony's Key 20 hours a day. It's not a far walk to anywhere.

Down the hill from the main house and to the left of the reception deck is a long dock with a boathouse and several buildings including the dive shop, dive storage room, gift shop and photo shop. The storage area is a lifesaver—everything wet

and heavy can be left inside. Five vessels, including three 40 foot wooden island boats, accommodate up to 70 divers. The boats, storage areas and huge air fill system reflect Peter Hughes' flair for organization. Divers have their choice of one, two or three dives a day and the boats return to the dock after each dive. Julio Galindo maintains a property with a dock on the south side of Roatan. This ensures diving on a daily basis in the rare event of a northern blow.

Photo Roatan offers daily E-6 slide processing, camera rental and repairs, photo instruction and an underwater video program. AKR's new Aqua Video housing and VHS one-half inch camera recorder for rental and tape production is in constant use. Guests can rent the video unit or have the resident pro film them for a sequence that is edited into a stock AKR presentation to take home.

The diving environment around Anthony's Key is very acceptable and is usually rated extremely high by experienced divers. Diving here is always interesting and the types of sites are varied. While not necessarily the most dramatic in the Caribbean, the Bay Islands have an unusual number of deep and shallow areas. There are some areas that are quite similar to Bonaire. Others are reminiscent of Cozumel or Cayman and still others remind one of the Bahamas. The reef system is a continuation of an offshore fringing/barrier reef that begins in the northwest Caribbean off Mexico's Yucatan Peninsula and runs south nearly to Columbia, South America.

There are some definite Bay Island signatures that separate these islands from the rest of the Caribbean. The two major ones are the deep reef cuts or grooves and the prominence of pillar coral. The reef is always heavy and well formed, but probably owing to the lush, mountainous topography, there are huge reef clefts or vertical grooves marking the bay or river runoffs. Fortunately, the runoffs do not seriously disturb the normally excellent visibility because the islands are rather small. Roatan, the largest, is approximately 20 miles long by 3 to 4 miles wide and far offshore. These grooves form fissures through the reef creating winding trails, huge canyons and in some cases, considerable cave and cavern systems.

The physical parameters required by pillar coral normally restrict its growth even in most well known Caribbean dive destinations. Any diver will see that it is in abundance in Roatan and throughout the Bay Islands. One well known stand inshore from the Eagle's Perch and close to AKR is an astounding 10 feet tall and 20 feet or more in diameter. Elsewhere there are many stands nearly that tall and found close together.

Fish life is generally good. There is not a huge number of large groupers or big fish such as amberjack or jack crevalle,

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ANTHONY'S KEY RESORT

but reef fish are plentiful including the beautiful indigo hamlet and yellow coney.

A well known signature of Roatan reefs is the giant reef crab (genus *Mithrax*) that is found on a large percentage of day and night dives beneath ledges and overhangs. Also noticeable are schools of iridescent indigo wrasses that parade in seemingly endless single file formations along the reef crests and drop-offs. Several garden eel areas, deep and shallow, are known and the curious pairings of barjacks and companion hogfish are sighted here often.

Unusual invertebrates in Roatan include a ghostly white gorgonian or sea-whip (deep); a frothy, short, yellow gorgonian (mid-depths) and a colorful yellow-fringed nudibranch and long stalked anemone (shallow).

There are only a few wreck sites close to Anthony's Key and except for hardcore wreck divers, these are not worth a special dive. However, plans are getting underway for a couple of wrecks to be sunk by the government that could fill in the only gaps in the Bay Island's catalog of dive sites. There are more than 30 regular dive sites frequented by AKR dive guides. Herbie Jackson and Sammy Wesley probably know the area best. Both have been with the resort more than ten years and have accumulated a wealth of local knowledge.

Divers are usually good eaters and will not be disappointed with AKR's kitchen. Group and individual packages normally include three meals per day and the menu is a pleasant combination of island and continental food concentrating on seafood and dessert specialties. It is quite possible, without applied willpower, to gain a couple of pounds in an active week's stay.

In addition to the obvious diving, dining and drinking, there is a plethora of physical activities including horseback riding, sailing and boardsailing (Herbie Jackson is the expert), tennis (three courts), picnics, private sunbathing (on your deck or nearby Bailey's Key) and mountain walks (informally scheduled with the gardener). Locals will be pleased to show and sell "yapa ding dings" or Payan and Mayan Indian artifacts. There are some authentic pieces but most of what is around today is modern imitation. No matter, they are cheap and are excellent reminders of the ancients who once roamed these islands before Columbus was born. New this year is a weekly island tour to acquaint visitors with the culture and history of the island of Roatan.

The best day of the week at AKR is the West End picnic, an established and traditional celebration. It is an all resort event that begins with an armada of dive

boats that leave for the half-hour journey right after breakfast.

With a wonderful West Bay dive completed, three boatloads or better of merry divers land at the most beautiful stretch of crescent shaped white sand beach that can be imagined. Under long-necked palms and a deep blue sky punctuated by cotton-puff clouds, families, singles, couples and groups of divers sunbathe, eat, play volleyball, swim, ride horses or do nothing at all but absorb the atmosphere of this special place. The highlight, before the afternoon dive, is the judging of the sand sculpture contest, with its often hilarious entries.

The best thing that has happened to AKR since our last visit is Mandy Wagner, the new resident manager and hostess. Mandy is a gem: a pretty and personable young lady with a college degree in restaurant/hotel management, five years of experience on Roatan with her own restaurant and in managing other resorts. Mandy's influence is everywhere from the kitchen to her vegetable garden on Anthony's Key.

Ever since Julio, Peter and group bought Anthony's Key from the Paul Adams family (Adams built the resort around 1970), there has been a general and gradual upgrading of facilities and an expansion of units and services. It is obvious this trend will continue. It is hard to imagine a more dedicated, friendly staff.

Transportation to Anthony's Key is via Tan Sahsa Airlines from Houston, New Orleans or Miami. Jet service is normally to San Pedro Sula in Honduras with DC-3 service to La Ceiba and the Bay Islands.

Anthony's Key offers a variety of packages year-round for divers and non-divers. Packages normally include a full meal plan and most optional sports. Contact Peter Hughes Diving Inc., 1385 Coral Way, Coral Gables, FL 33145; (305) 858-DIVE or 1-800-227-DIVE.

PALAU PACIFIC GM

Kunio Mitsutsune has been appointed general manager of Pan Pacific's Palau Pacific Resort on Koror.

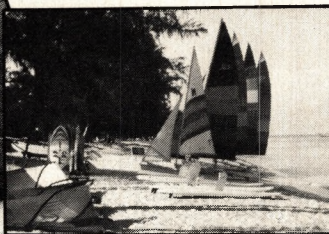
Fluent in four languages, Mitsutsune is a graduate of Dokkyo University in Japan and the Ecole Hoteliere Suisse in Lucerne, Switzerland. He also studied at Cologne University in Germany and Cornell University in Ithaca, New York.

On the island of Koror in the Republic of Palau, Micronesia, the \$22.5 million Palau Pacific boasts Koror's only white sand beach and has 100 guest rooms with private lanais, an open-air terrace lounge, two restaurants, meeting rooms, tennis courts and swimming pool.

For further information or group bookings, contact Pan Pacific Hotels, 2951 28th St., Suite 3060, Santa Monica, CA 90405; telephone (213) 452-7736, toll free (800) 538-4040. For individual reservations, call toll free (800) 663-1515.

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per day, along with tanks, air, etc. And Heron's full facilities include day and night tennis, a cinema, swimming pool, well-stocked bar and dance band. Situated within a marine national park, Heron is perfect for close-up and macro underwater photography. You can also explore by glass-bottom boat, go for a reef walk, or go deep sea fishing. Would-be divers can learn at Heron's own certified diving school. There's no diving like the Great Barrier Reef, and no place on the reef like Heron Island. For information and dive brochure, call (714) 786-0119.

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Diving News From Down Under Northern Coral Sea Tour

TEXT AND PHOTOGRAPHY BY GERI MURPHY

Owing to the extraordinary success of last season's Coral Sea Grand Tours, See & Sea Travel and the owners of the *Reef Explorer* have again scheduled a Grand Tour cruise of the Northern Coral Sea.

America's largest and best known dive travel agency specializing in live-aboard trips to exotic locations, See & Sea is the original architect of the Grand Tour concept. The San Francisco agency has conducted this type of cruise in Australian waters for more than four years.

The *Reef Explorer* is one of Australia's finest and most experienced live-aboard dive boats. It is a custom built, 65 foot twin diesel cruiser that can accommodate up to 12 divers. The craft is specially equipped with sophisticated satellite navigation equipment and 360 degree sidescan sonar for extended offshore sailing. It is one of the few Australian dive boats licensed for operation in the Coral Sea. It is crewed by divers experienced in pinpointing the most outstanding dive spots.

The Grand Tour is a rather unique concept in vacations, consisting of a 12 day live-aboard boat cruise to the most exotic diving Australia has to offer. Lying some 200 miles off the northeast coast of Australia, the vast Coral Sea is a 150,000 square mile area of ocean containing the clearest waters of the South Pacific. Underwater visibility in this area runs between 200 and 300 feet. Widely spaced in this open ocean are a number of isolated, uninhabited coral atolls that rise from the depths to within a few feet of the surface. These remarkable coral cities serve as beacons for marine life. They are literally covered with giant soft corals, magnificent hard corals, schools of reef fish and exotic marine life of all kinds.

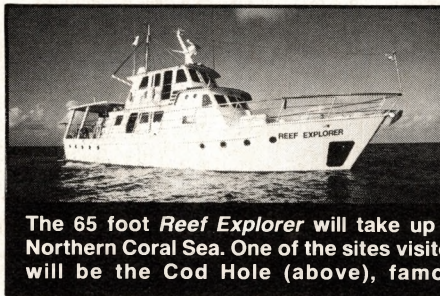
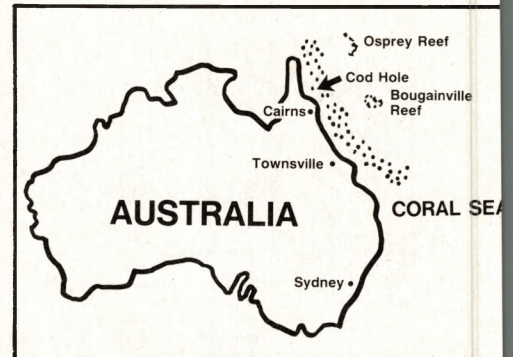
The atolls of the Coral Sea have often been described as "The crown jewels of Australian diving," yet few divers have ever seen them. Most lie 200 to 300 miles off the coast, well beyond the outer limits of the Great Barrier Reef. It takes a specially equipped boat, knowledgeable crew and a well organized expedition to reach them.

The Grand Tour concept is specifically designed to meet this challenge. It is a

safari-style trip during which the *Reef Explorer* travels 500 to 700 miles, generally at night. There is diving all day.

The Grand Tour of the Northern Coral Sea is actually a 12 day/11 night cruise at sea. Additional days are spent traveling to and from Cairns on Australia's northern Queensland Coast, plus an overnight stay in Cairns to rest and recuperate from jet lag.

Guests board the *Reef Explorer* at the Cairns dock for an onboard dinner and Grand Tour familiarization meeting. Later



The 65 foot *Reef Explorer* will take up to 12 divers on live-aboard cruises to the Northern Coral Sea. One of the sites visited in this vast expanse of crystal clear water will be the Cod Hole (above), famous for its family of huge potato cod.



in the evening the *Reef Explorer* begins its cruise to the Great Barrier Reef. The next day is spent diving the Ribbons Reefs along the outer edge of the Barrier Reef. The Ribbons offer some of the finest diving to be found in this area. That evening the boat departs for its open sea cruise to Bougainville Reef, first of the Northern Coral Sea's atolls.

Several days are spent exploring the vast circumference of the Bougainville atoll with visits to the wreck of the *Antonio Terrabacchi* and several spectacular drop-offs. This area is particularly well known for its giant soft coral formations that often grow six feet tall. Guests frequently encounter sea turtles, sharks, schools of pelagic fish and groupers.

The *Reef Explorer* then moves on to Osprey Reef, one of the most spectacular atolls in the Coral Sea. It is oval shaped with over 50 miles of living coral reefs and 250 foot visibility. This location is legendary for manta rays, tuna, jacks and other pelagics. At North Horn, there is a spectacular, seven foot tall, lemon yellow, soft coral tree. It is here that the crew

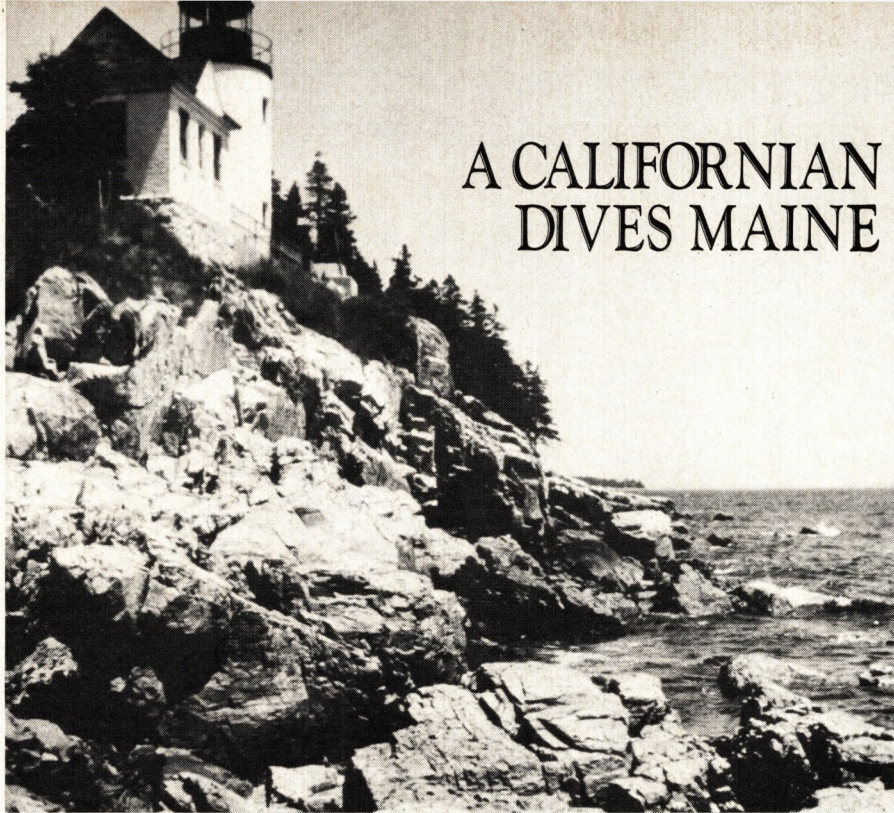
of the *Reef Explorer* feeds a school of semi-tame sharks.

A spectacular night dive is frequently conducted at Osprey, consisting of a visit to a shallow coral valley that literally glows from the light of thousands of flash-light fish!

After this orgy of diving adventure, the dive boat returns to the northern Great Barrier Reef in the area of Lizard Island. The final diving adventure of the tour consists of a visit to the legendary Cod Hole. This reef is the home of 20 giant black and white groupers (potato cod) that are completely tame and can be hand fed by divers. These huge fish range from 80 to 170 pounds.

The 1985 Grand Tour of the Northern Coral Sea is scheduled for October 6-19, 1985. Additional Grand Tours for groups, clubs or dive stores can be scheduled upon request.

For more information and prices on the Australia Grand Tours, contact See & Sea Travel, 680 Beach St., Suite 340, Wharfside, San Francisco, CA 94109; (415) 771-0077.



A CALIFORNIAN DIVES MAINE

TEXT AND PHOTOGRAPHY BY RUSTY GELLER

I guess the first thing that strikes you as you hit the water in Maine is that it's a shade colder than at Catalina Island, California. It took me only a few seconds to

figure that out, after I rolled off the gunnel of Chris Eaton's *Steve-n-Lynn*, the ex-lobster boat he runs out of Harbor Divers. He and his wife own this complete dive shop

in Bass Harbor, on Mt. Desert Island, midway up the Maine coast, an hour drive from Bangor International Airport.

With thick forest reaching down to a rocky shore; great, old, shingled houses; rustic piers piled with lobster pots; and the obligatory lighthouses perched on the water's edge, Maine has the most picturesque coast of any of the 50 states.

I knew a few months in advance that I would be in Maine on business, so with a road map in one hand and SKIN DIVER's Diver's Directory in the other, I found Harbor Divers conveniently located between the airport and my destination. I called and reserved a spot on their boat. The Eatons were very helpful. I asked Elaine over the phone if I would need to use a drysuit.

"No," she replied casually. "The water's warmed up to 45, so we're using wetsuits now."

Warmed up to 45? Degrees? As in Fahrenheit? Ok—I figured if she could take it, so could I.

Acadia National Park, with its shady evergreen forests and rugged coastline, is on Mt. Desert Island. After diving from desolate beaches in Baja and off chaparral covered islands on the coast of Southern California, a pine tree, not to mention hundreds of thousands of them, is a delight to find next to the sea.

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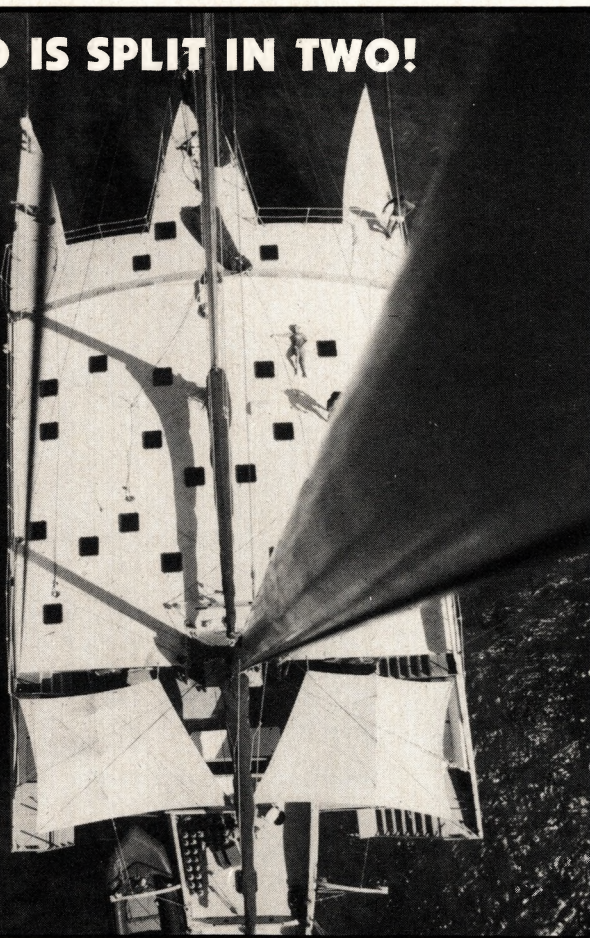
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CALIFORNIAN IN MAINE

On the swim down the anchorline for the first dive, we eased past lazy jellyfish, pulsing like living lace, dotting the blue water as far as I could see. Naturally, I wanted a picture of them, but, of course, my camera was set up with an extension tube for close-ups. All I could do was stick my close-up framer up the skirts of the nearest jellyfish and snap a few shots. I heard a strange squealing noise: Do jellyfish make sounds? Then I saw Chris grinning at me. The sound had been this big man laughing at me taking this obscene photo of this innocent creature. I'd never heard anybody laugh underwater before. I guess you just have to be big enough to project. He did look like an underwater Pavarotti.

On the bottom I saw acres of sand dollars on a white, coarse-grained bed of crushed seashells. Chris led me to a rocky plateau at 45 feet on which grew white tufted plumose anemones, ten inches around, on tall, slim, marbled stalks a foot high. There were round, short, red *Tealia* anemones, sea peaches and a tall scarlet variety of anemone that retracted immediately at the touch of my framer. I watched in amazement as three feet of stalk shrank to the size of a grapefruit in ten seconds. There were starfish everywhere, in marvelous shades of red and yellow, and funny little hermit crabs scurried in sprints across the open spaces. I looked for fish and was surprised to see so few. Apparently the pelagic schools migrate through later in the year when the water is warmer.

Chris found a football sized lumpfish guarding her eggs. He gently stroked her and she didn't seem to mind. We saw several of these fish on this dive. Normally a drab green, they become bright orange during the mating season, sitting attached to the bottom on a triangle of fins they use as a sucker. I spotted a flounder hiding camouflaged in the short bottom growth. He was pretending real hard that he wasn't there and I went along with him, sneaking only one quick shot.

We surfaced after 20 minutes, halfway through our air, to warm up next to the boat heater. As I reloaded my Nikonos, Chris moved the boat behind Great Gotts Island to get out of the northerly swell. We anchored in a group of brightly colored buoys attached to lobster pots down on the bottom of the bay.

Chris wanted to show me an unusually large lobster, so big that he was over the maximum legal size.

Again we rolled off the side of the boat and again the cold smacked my forehead like a brass mallet. Just a week before I had dived off Laguna Beach in Southern California and had to unzip my wetsuit jacket to cool off.

We settled on an acre sized reef, more

a plateau, with soft, porous white coral trees and large fluffy anemones. I had stopped to take a few pictures of these when I heard Chris tapping his knife against his tank. I hurried over to him and he pointed down into a crevice. There, standing on a ledge in front of a cave, stood a huge lobster—Maine variety, with claws. He was waving like Pa Kettle on his front porch, or was he inviting me to just try to put a finger in range of one of those big red pliers of his? Chris held his knife out to him and the critter took it by the blade in a claw and waved it back and forth like a flag. This really tickled Chris and he started laughing again. I wondered how he managed to keep the regulator in his mouth. We goofed with megalobster for awhile, seeing how fearless and belligerent an animal can be if never threatened by the hand of a diver. California spiny lobsters are shy and nocturnal, hiding under rocks during the day, wary (for good reason) of divers. But here in Maine they can afford to hold their ground, for divers aren't allowed to take them under any condition or season. Maybe that was why this beast wasn't afraid. Then again, he did have size 13 claws. I took the pictures and Chris took back his knife.

On the third dive I played with a reluctant kuskfish that sat quietly on the bottom—body like a lingcod, tail like an eel but curled up like a rattlesnake—until I prodded him from behind. He opened his mouth wide like a bullfrog yawning and swam forward a few feet, then coiled his tail and settled back down on the bottom.

Tired and cold, Chris and I rested on the seafloor and watched two oversized hermit crabs slugging it out in some sort of submarine grudge match. A third hermit crab, smaller than the others, would wait until one of his big friends was down and rush in and thump him. I heard Chris laughing again.

When I think back on my diving in Maine, my first impulse is to compare it to California or the Caribbean, but that's not realistic. Just as it would be unreasonable to compare an alpine forest to a Sonoran desert, each ecology has its own design dictated by the demands of its environment. The marine animals of New England have adapted to their surroundings: The lumpfish affixes itself to the bottom to withstand the powerful surge, the scallop can swim free to feed and avoid predatory starfish and the tall-stalked anemones are able to reach out and filter the protein-rich waters.

The divers, too, have adapted their skills and attitudes to fit the environment. They are a hearty and humorous lot, as are most of the people I met in Maine.

It had definitely been worth staying an extra day to make these dives in the cold but beautiful waters, on this dramatic coast, in this gracious and friendly state of Maine. And, if you're ever in Bass Harbor and want to hear a good laugh, go diving with Chris Eaton. >>>



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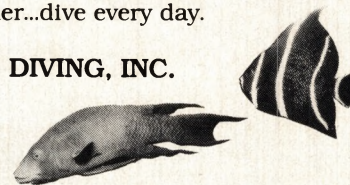
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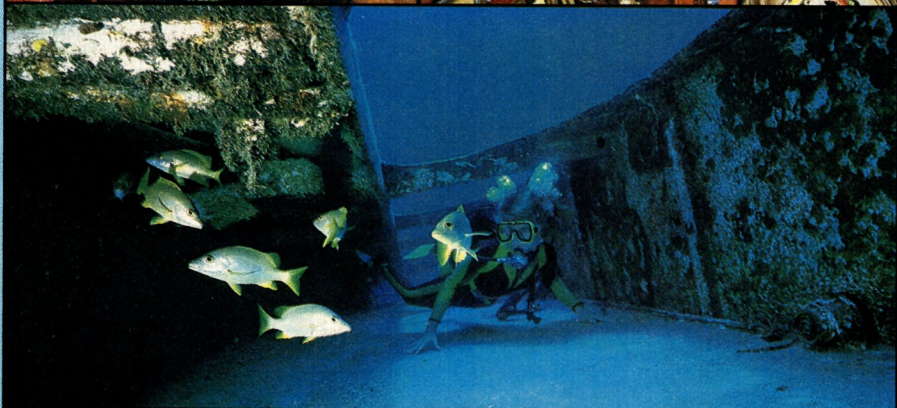
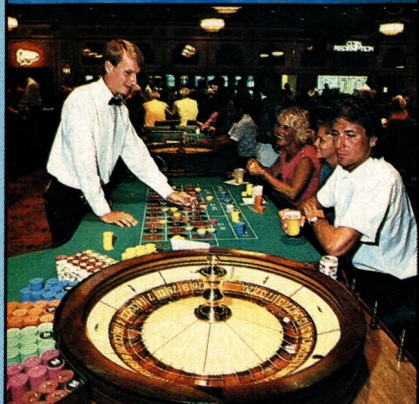
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Fabulous Freeport

TEXT AND PHOTOGRAPHY BY STEPHEN FRINK



Ponce de Leon was among the first Europeans to discover Grand Bahama in his quest for the legendary Fountain of Youth. But, the huge, flat landmass, with its sand beaches, extensive shallows and treacherous coral reefs providing hazards to navigation, was of little attraction. Dismissed as *gran bajamar*, literally the vast underwater, the island held minor commercial or industrial interest for the conquistadores. The peaceful Lucayan Indians already inhabited the coastal areas of Grand Bahama and provided an exploitable labor force for the fisheries, mines and plantations of Hispaniola and Cuba. The slavery of the native population became the first form of commerce.

While the island has been historically slow to develop, with piracy, wrecking, fishing and sponging being the dominant industries in the years between discovery and modern times Grand Bahama's wealth of tropical beauty, combined with its proximity to the United States, has made the evolution of the island into one of the Bahamas' premier tourist destinations inevitable. In the Western Atlantic Ocean, bathed by the Gulf Stream to the west and protected by the Great Bahama Bank to the east, Grand Bahama lies at approximately the same latitude as Palm Beach, Florida, only 60 miles away. The weather pattern is subtropical with summer highs reaching 90°F moderated by a cooling breeze from the ocean and winter lows generally in the 70s. The water temperatures are similarly balmy with a high of about 86°F and wintertime lows around 70°F. The Gulf Stream passes through many of the best dive sites, providing both warmth and water clarity that can exceed 200 feet at times. There are more than 60 miles of beaches, some de-

Below: Loading luggage on a Gull Air Cessna 402. Clockwise from left: Theo's Wreck, roulette table at the Princess Casino, waterfall at the Holiday Inn pool, shopping at the Straw Market, propeller at Theo's Wreck, dining at Guanahani's.



veloped and many completely deserted; inland and ocean blue holes; massive underwater caverns; miles of coral reef; fascinating settlements and the major center of population and commerce on the island, Freeport.

In the early 1950s tourism to the Bahamas had become quite popular, although compared to the massive number of tourists visiting the islands today, tourism

more than 3,000 rooms in the near future. In addition, there are short-term condominium rentals and interval ownership resorts, cruise ships and the occasional arrival of live-aboard dive boats to round out the gamut of tourist accommodations.

For the diving enthusiast, the Underwater Explorers Society (UNEXSO) has been the best way to visit the underwater attractions of Grand Bahama for more

plorers Society—John Englander, Glenn and Suzie Turnquest and Barry Taylor—have made the best diving in Freeport easily accessible, efficient and fun. And, now they have opened a scaled down version of the same operation at the Jack Tar Village at West End, Grand Bahama. The Jack Tar is a 400 room hotel on the waterfront operated along the Club Med concept of one price for all recreational

Grand Bahama Island Offers Fine Diving And The Good Life

was but a fledgling industry. Grand Bahama developer Wallace Grove conceived a free port community on the island, similar to other free ports in the Caribbean that generally permit the importation and sale of goods without customs or excise duty, with consequent attractive prices to the consumer. The Hawksbill Agreement of 1955 between Wallace Grove, president of the Grand Bahama Port Authority and the Bahamas Legislature empowered the Port Authority to construct a deep water harbor and create an environment where business might flourish. This, in exchange for concessions such as leased lands at minimal cost; duty free and tax free importation of goods other than consumable products; freedom from property tax for 30 years; no personal or income tax; and no excise or export taxes for 99 years.

The agreement has since been amended and updated but the result has been an exciting collaboration between government and the private sector that has moved Grand Bahama from a sleepy, predominantly rural island to a major center of tourism and commerce. It has a large, modern international airport, deluxe resort hotels, cruise ships, sophisticated scuba diving facilities, complete watersport activities, golf, tennis, horseback riding, sportfishing, casinos, nightclubs, fine restaurants and excellent duty free shopping in Freeport, the second largest city in the Bahamas.

During our most recent visit to Freeport we made the 45 minute flight from Miami via Gull Air in a comfortable Cessna 402. Other airlines serving Freeport with direct flights from major U.S. cities and the Caribbean include Eastern, Bahamasair, Pan Am, United, Ozark, Caribbean Express, Trans Air and numerous private charters. Flights come and go several times daily making Freeport one of the most accessible island destinations in the world. There is a tremendous variety of accommodations on the island with resort hotels such as the Holiday Inn, Atlantik Beach, Bahamas Princess, Jack Tar Village and many others accounting for more than 2,000 hotel rooms presently available for occupancy. With renovation and new construction underway there is potential for

than 20 years. From the main facility in Freeport/Lucaya and now with the addition of the dive center at the Jack Tar Village at the West End, UNEXSO can offer the widest variety of dive sites reached by modern, spacious dive boats. In addition, UNEXSO features one of the most active scuba instruction programs in the Caribbean. There is an 18 foot training tank at the Freeport headquarters that is in daily use for resort courses and scuba instruction. There is also ample qualified staff for the more than 175 open water scuba certifications and over 2,500 NAUI Entry Scuba Experiences (resort course) conducted each year. There is also a superior program for advanced instruction with specialties such as cave diving, marine life identification, decompression diving and underwater photography. A complete darkroom is on the premises to provide E-6 processing and a new recompression chamber is expected soon to upgrade the chamber presently in use.

There are three beautifully functional deep-V diesel dive boats operating out of the Freeport location. These vessels are kept busy transporting divers to the early morning, mid-morning, afternoon and night dives regularly scheduled at the dive center. The early dive will typically be a deep one in 60 to 80 feet of water or perhaps Theo's Wreck, a 230 foot steel freighter intentionally sunk as a diving attraction and perched at the edge of the ledge on its side in 100 feet of water. The mid-morning dive is to a shallow reef in 10 to 20 feet of water, but just because these reefs are shallow does not mean they aren't as spectacular as some of the more challenging dive sites. Freeport's shallow reefs are characterized by purple and golden seafans, healthy and intact forests of elkhorn coral, stands of pillar coral and various other hard and soft corals in rainbow hues. Schools of grunt, snapper, goatfish and sergeant majors dominate the fish populations. The mid-reef lies in 30 to 60 feet of water and is usually the destination for the afternoon dive, although by special arrangement a trip to one of the magnificent U/W grottos of the Lucayan Cavern system, such as Mermaid's Lair, might be substituted.

The directors of the Underwater Ex-

plorers Society—John Englander, Glenn and Suzie Turnquest and Barry Taylor—have made the best diving in Freeport easily accessible, efficient and fun. And, now they have opened a scaled down version of the same operation at the Jack Tar Village at West End, Grand Bahama. The Jack Tar is a 400 room hotel on the waterfront operated along the Club Med concept of one price for all recreational

activities including snorkeling, boardsailing, sailing and other watersports. Scuba diving programs require an additional surcharge, but the geographic location and range of potential dive sites make West End an interesting consideration for a Grand Bahama dive adventure. I've only made one dive at the West End but on that dive I saw a school of at least 1,500 horse-eye jacks, a friendly, photogenic barracuda, curious angelfish and photo-tolerant tarpon, all of which created incentive to return another time.

At the East End of Grand Bahama is the dive operation of the Deep Water Cay Club under the direction of John and Mary Brooks. The Deep Water Cay Club has been in operation for more than 25 years as a bonefishing resort, but now there is a complete diving program offered as well. There are only nine double occupancy rooms at the resort (60 miles east of Freeport) and a 27 foot dive boat limited to 10 divers. John and Mary are experienced cave and cavern divers and visit the numerous ocean and inland blue holes at the East End frequently. They also dive the miles of virtually unexplored coral reef with even greater regularity.

I have only hinted at the numerous and varied recreational activities that so characterize the Grand Bahama vacation experience. There are the championship golf courses and modern tennis courts, the fascinating bargain-hunter's paradise at the International Bazaar and the Moorish-design gaming center known as El Casino with its lavish cabaret show, blackjack, roulette, baccarat, craps and slot machines. There is horseback riding along a deserted beach or parasailing in front of the Holiday Inn and Atlantik Beach Hotel. You can lounge around the landscaped pools and waterfalls at the Bahamas Princess Hotel or dine at one of the island's gourmet restaurants such as the Buccaneer or Guanahani's. Grand Bahama offers a balanced vacation with excellent diving and professional dive operators and a wealth of entertaining or relaxing activities for non-diving hours.

For diving reservations or information regarding dive/lodging packages, please contact UNEXSO, Box F2433, Freeport, Grand Bahama; (809) 373-1244. 

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CEDAM VENEZUELA EXPEDITION

Dr. Kathleen Deagan of the Florida State Museum will lead a CEDAM International expedition to the lost city of Nueva Cadiz in Venezuela during September and October. Nueva Cadiz was a great pearling center for the Spanish in the early 1500s. Today, the site offers a unique opportunity to study (both on land and underwater) the culture of the Spanish conquest period.

Divers and non-divers are eligible to participate in the expedition during three periods: September 28-October 5, October 5-12, or October 12-19. The cost of the trip includes diving, hotel, meals, drinks, guided tours and transfers in Venezuela. All expedition related expenses are tax deductible. The base camp of the expedition will be the Hotel Juan el Griego on Margarita Island.

For more information contact CEDAM International, One Fox Road, Croton-on-Hudson, NY 10520; (914) 271-5365.

SCUBABOWL '85

Scubabowl 1985, Cayman Island's annual dive travel training program, is scheduled for September 28-October 3. The Scubabowl 1985 price includes hotel, diving fee, air fare from Miami or Houston, ground transportation and PADI promotional fees. The Grand Cayman Holiday Inn is the host hotel.

The tentative program for the event will include four, three hour lecture sessions; daily diving; and social events in the evening, sponsored by dive operators and hotels. Each social event will be built around a particular theme. Luncheon socials are also planned.

Paul Tzimoulis of SKIN DIVER Magazine and Jeff Nadler of PADI are among the invited guest lecturers, discussing travel trends and benefits to dive shops.

Scubabowl 1985, like its predecessors, is designed to show dive stores how they can increase their profits from dive travel, extend their personal network to others in the profession and enjoy the best diving combined with an innovative training program.

For information and reservations, call or write Scubabowl 1985, 1243 E. Warner Ave., Santa Ana, CA 92705; telephone (714) 540-7234. A \$100 deposit is required and registration, limited to 125, closes September 1.

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Art Curtis and Robert Wojtonik (Wojo) have recently joined Blackbeard's Cruises as captain and dive instructor.

For more information contact Blackbeard's Cruises, P.O. Box 661091, Miami Springs, FL 33266; toll free (800) 327-9600, Florida (305) 888-1226.

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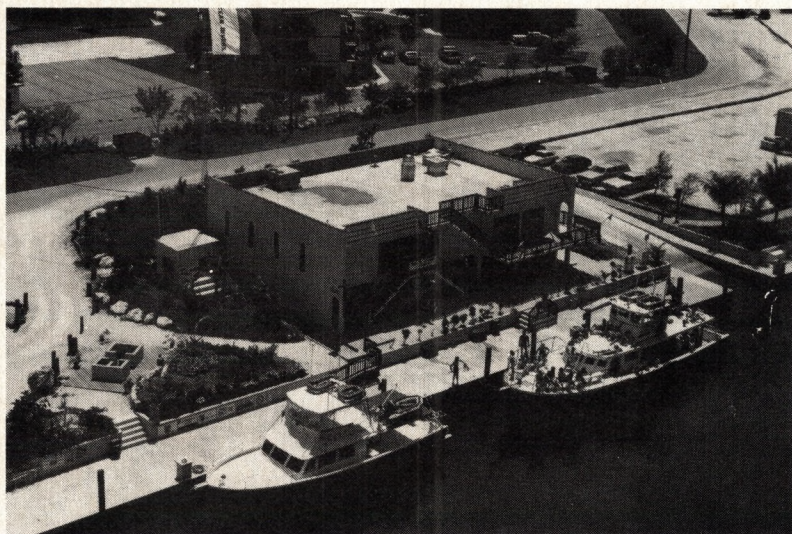


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OCEAN DIVERS



Top: Ocean Divers' dockside facility houses a retail center, restaurant, marine supplies store, tackle shop, scuba gear rental area, regulator repair clinic and classroom. Above: Store interior. Left: Grunts, Pennekamp Park.

A Full Service Dive Resort On The Shores Of Pennekamp Park

TEXT AND PHOTOGRAPHY BY STEPHEN FRINK

This year marks the tenth anniversary of Ocean Divers, one of the largest and most complete dive operations servicing John Pennekamp Coral Reef State Park. From a single dive shop on U.S. 1 with a six passenger dive boat and a pickup truck, Ocean Divers has evolved into a full dive resort. It has: two major retail locations; several multi-passenger diesel dive boats; a restaurant and lounge; a boat ramp and boat dockage; underwater camera rentals, sales and service; daily E-6 processing; underwater video services; a marine hardware store and bait shop; scuba equipment repair; and a complete PADI and NAUI instructional facility.

As the traveler enters the Florida Keys from Miami, Ocean Divers may be found on the bayside of U.S. 1 at Mile Marker 102.5. The highway retail facility offers a wide selection of T-shirts, some leisure wear and scuba gear. This is also the home of Stephen Frink Photographic, a separate but cooperative business that has been affiliated with Ocean Divers for seven years. Frink Photographic offers camera rentals, equipment sales and service, daily Ektachrome and Fujichrome processing (E-6), photo instruction and tours. A new area of the photo business involves underwater video with both rentals and custom video services available by reservation. Decorator prints are another popular service at Frink Photographic. The images may be printed from the customer's original slides or any of a wide selection of slides, including those from some of the nation's top U/W photographers, as the WaterHouse stock photo agency is housed on the premises.

Another three miles to the south is the turnoff leading to Ocean Divers main retail facility and boat docks. On a major commercial canal with easy and quick access to the Atlantic Ocean at the south end of Pennekamp Park, the Ocean Divers building is a modern 7,000 square foot complex. It houses a tastefully decorated retail center; a restaurant; a marine supplies store; bait and tackle shop; the scuba gear rental area; and the regulator

repair clinic. The rental area is just steps from the dive boat docks and the retail center is upstairs overlooking the canal. There is also the combination classroom and audio/visual area for scuba instruction. While Ocean Divers' biggest business is its daily dive trips to the reefs of Pennekamp, it is a PADI Five Star and NAUI Pro Facility with a heavy emphasis on continuing diver education.

In addition to the four day open water diver certification programs, Ocean Divers also features specialty certifications. Ocean Divers is also a booking agent for the Marine Resources Center that operates an underwater habitat in Key Largo. Enrollment in this program leads to certification as an aquanaut, of which there are only 800 worldwide. It involves spending over 24 hours underwater in the habitat learning this unique marine science. As another accessory to an already complete dive program, Ocean Divers can also arrange for guests to snorkel with a group of friendly and energetic dolphins. This is one of the more popular watersports in Key Largo.

The coral reef tours conducted by Ocean Divers generally operate as two tank dives with departures at 8:30 and 12:30. The boats will usually dive the south end of Pennekamp with some of the area's most famous dive spots such as Molasses Reef, French Reef and the *Benwood* Wreck on the normal itinerary. Like most dive shops in Key Largo, scuba divers and snorkelers are generally accommodated on the same boat since most of the dive spots are in waters from 25 to 35 feet deep with high profile corals rising to within ten feet of the surface. One of the geographic quirks of the Florida Keys is that the coral reef is a fringing structure five to six miles offshore: A dive boat is necessary in order to get to the clearest waters and the most exciting corals and fish populations.

Ocean Divers has arranged dive/lodging packages with Port Largo Resort and the Holiday Inn. Since both properties are close and offer a substantial price advantage

over booking both lodging and diving separately, these packages have been quite successful. However, the prudent traveler to the Upper Keys should be aware that the weekends bring throngs of diving enthusiasts down from Miami and Fort Lauderdale for both sport diving excursions and open water checkouts on the local dive boats. Conditions are often crowded and there is little incentive for the dive shops to offer special pricing advantages to place individuals on the boats over the weekend. Call the toll free reservation number, (800) 451-1113, for more details.

Port Largo Resort is beautiful property adjacent to the Ocean Divers waterfront facility and offers two bedroom, two bath luxury villas with central air-conditioning and cable TV. These are fully furnished including linens and utensils and have full kitchens and a laundry area. The grounds are immaculately landscaped and feature two swimming pools, tennis courts, boat dockage and the popular cocktail lounge, Coconuts. There is a new complex under construction that will offer one bedroom, one bath accommodations that will be priced competitively with a normal hotel room. Both types of lodgings will be available in packages with Ocean Divers.

The Holiday Inn is easily within walking distance of the Ocean Divers docks. It features fine accommodations coupled with the convenience of the Holidex reservation system, a restaurant and lounge on premises, swimming pool, tennis courts, meeting rooms, room service, wake-up call and cable TV. For either the Holiday Inn or Port Largo Resort packages, a three day minimum stay is required.

Ocean Divers owners Joe Clark and Doc Schweinler have worked hard to develop a balance of efficiency and personal service coupled with a very impressive physical facility. For further information or reservations, call Ocean Divers at (800) 451-1113 or within Florida at (305) 451-1113. Mail inquiries to P.O. Box 1113, Key Largo, Florida 33037. 

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The Business Of KELP

Marine Farming Yields An Abundant Harvest

BY HILLARY HAUSER

One day there may be a lot of jobs for divers. Not jobs in oil fields or under piers or those that require extensive schooling in mixed gas techniques and decompression procedures, but jobs in mariculture—farming the sea. Divers with training in aquatic biology may well become the sea farmers of the future.

This scenario has been envisioned for some time by scientists all over the world, but Dr. Michael Neushul of UC Santa Barbara is one scientist putting the idea to work. He has planted a marine farm near Santa Barbara where as many as 20 divers at a time are employed to harvest seaweed four times a year. The farm is strictly experimental at present, but Neushul looks to the day when acres and acres of ocean will be planted with kelp and other seaweed, along with food animals such as abalone, clams and oysters—all of them a bouillabaisse of resources that will one day supply man with many of his essential needs.



Geoffrey Brosseau (left) and Dr. Michael Neushul with rack for kelp attachment.

Neushul, a professor of botany at UCSB, presently employs graduates from the school with training in aquatic biology to help in the operation of Neushul Mariculture, Inc. These "mariculturalists" work in the laboratory and hatchery, developing propagation methods and measuring the growth of plants and animals. When harvest time comes they all lend a hand and the crop is landed. The seaweed farm has been established on an area of seafloor leased from the state of California near Ellwood Pier in Goleta.

During the quarterly harvests, divers pick the kelp plants, always clipping them the same distance from the seafloor so that growth rates and overall productivity can be accurately measured. In the harvesting operation, two divers float on the surface, holding net bags into which they stuff long strands of the giant brown kelp passed up to them by two divers below who also check individual plant numbers as they cut the fronds. The sacks are

photos/Bob Ponce

weighed by another person on the boat and the weights are recorded and compared to previous yields.

Elsewhere on the farm another type of harvesting is done in which smaller, bushy red algae growing on racks are pulled to the surface and brought aboard a boat. The plants are then clipped by passing the racks over a seaweed harvester equipped with a lawnmower-like cutting head. The racks are then returned to the sea where the plants resume their growing, producing new shoots from the cut ends.

Periodically the seaweed farm is fertilized, either by a single person in a boat spraying the surface fronds of the kelp with a solution pumped from a tank aboard the boat or by fertilizer-enriched



photo/Ray Borges

Xiugeng Fei studied California kelp.

water being pumped through pipes on the bottom to feed whole groups of plants. Spraying solutions on top of the water may at first sound a little strange and one might wonder how such dilutions could be effective, but in most cases they are. Neushul's experiments have shown that solutions of fertilizers are more effective than sprinkling dry crystalline fertilizers which tend to burn the leaves and branches of the seaweed.

Neushul's seaweed farm has attracted worldwide attention and in this country the National Science Foundation, General Electric and the Gas Research Institute are supporting the seaweed farming research. The Gas Research Institute and General Electric are particularly interested because kelp converts very well to methane and methane may well be a renewable natural gas supply for the U.S.

Kelp, of the genus *Macrocystis*, is more simply known by divers as the big brown "trees" with bulbs, blades and the root-like tangled spaghetti balls at the bases called holdfasts. It is a major source of algin—a vital ingredient in just about everything under the sun, including cosmetic creams, doughnut glazes, beer, paper, fabrics, ice cream, glue, rubber,



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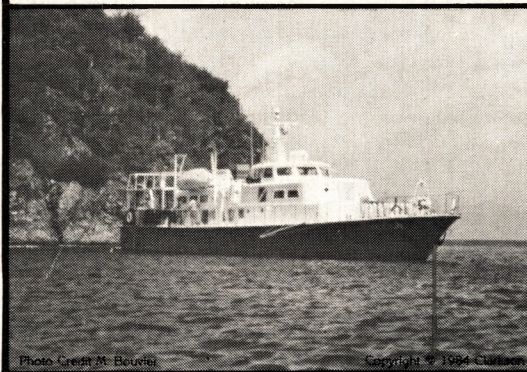


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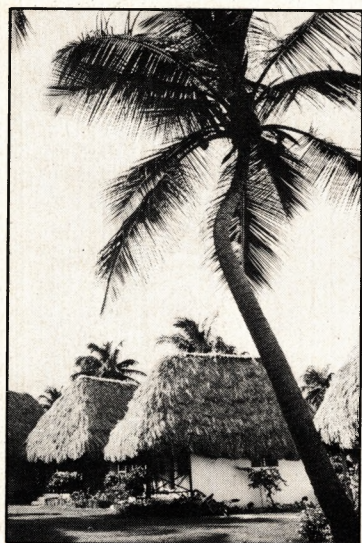
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auto polishes, fruit drinks, eggnogs, candy, toothpaste, hand lotions, paper sizing (such as is used on this magazine page), milk shake mixes, bakery fillings, plaster, cement and paint. That's only a fraction of the list.

Kelp is extremely fast growing, with marine plants increasing in wet weight at the rate of about one percent per day. Neushul and his co-workers are experimenting with hybrids to see if even faster growth is possible. In the laboratory of his headquarters there is a large collection of



A diver examines kelp during harvesting.

male and female gametophytes (microscopic egg and sperm-producing stages of the kelp) kept refrigerated and in dim light, in separate jars, to await propagation. One graduate worker in his employ works on propagation techniques and proudly shows off the "babies" growing in flooded trays under artificial light.

Neushul said that his company went off campus with UCSB permission in 1978 (he needed the space which the university didn't have) and in June, 1979 he received his first big contract from the National Science Foundation. That year he began planting seaweed offshore, anchoring kelp plants to removable chain and pipe structures. This planting technique is a useful one, because it can be done just about anywhere no matter what the bottom is like—even in completely sandy, barren flatlands where kelp usually refuses to grow if left to its own devices. In the 16 acres that comprise the Ellwood farm, Neushul's divers have solidly planted three or four of those acres.

Most of the present farm consists of plants that have been grown from cuttings, clipped from larger plants in the wild, but Neushul said he envisions the day when entire farms will emanate from laboratory propagated plants.

"We have the science," said Neushul. "But we need to apply it. In the Orient, marine farms are successful—it's not a big deal. Here, it's still a novel activity."

The bushy red alga being grown on the Ellwood farm is called *Gelidium*, the short weedy plant grown on racks. Geoffrey Brosseau, a UCSB graduate heading this project, explained that *Gelidium* is a major source of pharmaceutical grade agar, which cannot be produced synthetically. Agar, poured out into petri plates or in test tubes, is used in the evaluation of sanitary conditions in hospitals and restaurants. Generally, in the medical field, it is used for identifying bacteria that cause infections and in tests for carcinogens. The recent growth of "biotechnology industries" has increased demand for agar and products derived from it.

Currently, *Gelidium* is only harvested from the wild and Brosseau said that it is entirely possible that a very high quality agar can be commercially produced from plants grown on marine farms. In the Ellwood field he is growing plants on both Chinese and Japanese style rope farms.

Neushul's farm has brought scientists from around the world to Santa Barbara, to learn what is being discovered about marine farming. In return, they share information gained in their own experiments. One scientist from mainland China, Xiugeng ("Shoe-gun") Fei, recently introduced highly productive planting techniques, involving less dense plant spacing which allows more life-giving light to filter through seawater.

Fei, a professor of aquatic biology in the famed Institute of Oceanology in Qingdao, China, has been in this country for a year, studying the California kelp.

"You have great potential," said Fei, "much better than China. Here you have no limiting factors, you have nutrients most of the time." (In China, kelp is a seasonal crop because the plants are damaged each year by warm summer temperatures.) Fei said that China once imported all of its seaweed from Japan, but that after his institute started its mariculture experiments China began to produce its own seaweed. Today, his country produces 275,000 dry tons of seaweed per year. This is primarily the kelp *Laminaria*, which is very similar to California's giant kelp.

"The future is in mariculture and we are just beginning," said Fei. "The fruit, corn and wheat of tomorrow will be *Laminaria*. We've only been at this 30 years, which is no time at all when you think that agriculture on land has been around for thousands of years."

Neushul concurred. "The potential of large scale marine farms is very, very big, if we can get this going," he said. "There is no reason commercial marine farms producing agar, algin and a variety of crustaceans and shellfish couldn't one day be as successful as avocado farms are on land."

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Tabata's Color Knife

Put Some Flash In Your Dive Outfit

TEXT AND PHOTOGRAPHY BY GERI MURPHY



At last, the dive knife I have been searching for! As an underwater photographer, I have spent many frustrating hours attempting to photograph divers clad in black wetsuits and black dive accessories. The results are usually dismal, looking like ink spots in the ocean.

Over the years I have devoted many hours to carefully wrapping black knife handles with brightly colored plastic tape in hopes of sparking up that otherwise drab piece of equipment. Now, Tabata has done it for me by introducing brilliantly colored knives that coordinate perfectly with masks, gloves and BC jackets.

Tabata USA, of Long Beach, California, introduced the FK-130 color knife this year. It is available in either a light blue or canary yellow. Both models are fully colored from the handle to the sheath, including the tab holder and the two sheath straps. Before you jump to conclusions, let me hasten to say this knife is more than just for show, it is functional as well.

The knife features a 5.3 inch long, highly polished, stainless steel blade. The cutting edge is curved and fully sharpened from the hilt to the point. The back edge is fairly straight and sports a two inch serrated section for sawing through heavy rope. There is also a hooked line cutter close to the hilt.

The knife handle is molded to fit a diver's hand. The backside features a series

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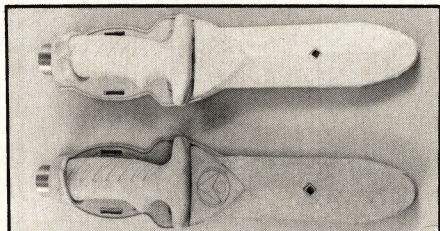
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of parallel grooves for an anti-slip grip. The butt of the knife is capped with a solid one-half inch thick, stainless steel head that can be used as a hammer. It's great for cracking open clams or crab claws.

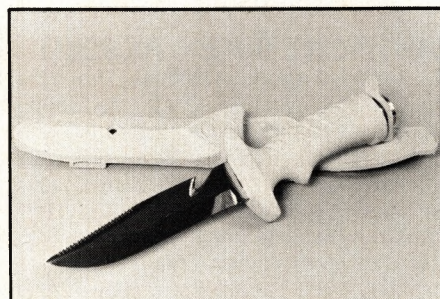
The knife sheath is equally functional. It fits the blade snugly, yet contains water/sand relief holes on the side and bottom. There are two 18 inch long straps that slip into slots in the sheath.

The knife handle, sheath and straps appear to be made of a sure-grip plasticized rubber. When worn on the leg, the



knife hugs the body and causes very little drag. I would rate the Tabata color knife as medium in size and suitable for both male and female divers. It is sort of a unisex model, weighing in at one pound.

As for performance, the knife works fine. You can use it for cutting, slicing, hacking, bashing and all that divers normally do with a knife. Best of all, it is re-



markably colorful and offers high visibility underwater. It would be difficult for this knife to get lost on the bottom.

The Tabata FK-130 knife sells for approximately \$32 complete with sheath and straps. For more information, see your local Tabata dive store dealer or contact Tabata USA, Inc., 2380 Mira Mar Avenue, Long Beach, CA 90815. 🐟

CAYMAN SPEARGUN BAN

Grand Cayman has outlawed the use of spearguns to catch fish. This legislation, the Marine Conservation (Amendment) Law, 1985, went into effect in mid-April. The only exception is for local residents licensed to use spearguns, primarily people who harvest fish in pursuit of their businesses.

Violators of the law are subject to a fine of up to \$5,000 and/or imprisonment of up to 12 months and confiscation of any vessel or equipment used in committing the offense. 🐟

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CARIB INN BOAT

A second new Privateer has been received by the Carib Inn on Bonaire. This 24 foot boat, powered by a 175 hp V6 Johnson outboard, also has a shelter cabin with extended roof for protection from the elements. Bruce Bowker, who owns and operates the Carib Inn, plans many more trips to the remote areas of Bonaire with this boat. Privateers are wide and easily handle the smaller numbers of divers the Carib Inn caters to.

For additional information write to the Carib Inn, P.O. Box 68, Bonaire, Netherlands Antilles or call direct 011-599-7-8819.

CAYMAN PACKAGES

Sea Safaris Travel, Inc., is offering all-inclusive packages to Grand Cayman. Featured in the packages are condos on Seven Mile Beach, diving with Dive Cayman Ltd. and the convenience of a rental car from Coconut Car Rentals. Sea Safaris has a hotel package, too.

For further information or reservations call or write Sea Safaris Travel, Inc., 3770 Highland Avenue, Suite 102, Manhattan Beach, CA 90266; (800) 821-6670 (nationwide) or (800) 262-6670 (California only).

ANTHONY'S KEY RESORT

Mandy Wagner of Mobile, Alabama, has recently been hired as manager for Anthony's Key Resort in Roatan. Wagner is new to Anthony's Key Resort but not to Roatan, having lived there for almost five years. She graduated from the University of South Alabama with a degree in leisure services and studies and received her masters from Florida State University in the same curriculum.

Wagner worked with the Department of Defense in Turkey as a recreation specialist for two and one-half years. She then moved to Roatan where she has worked in management at Reef House and CSY Resorts. Wagner has been operating her own restaurant on Roatan for the past year.

SPANISH COVE PROMOTIONS

Spanish Cove Resort on Grand Cayman has promoted several members of the dive staff. Harry Ward has been appointed dive operations supervisor for the expanded diver programs and Allen Bloomrosen, former dive operations manager at South Cove Resort, will be operations manager at Spanish Cove. Chris Jackson is now the assistant dive operations manager and Scott Roe has been promoted to director of the diver instruction programs. All personnel have been involved with Spanish Cove for several years.

HAWAII LIVE-ABOARD

The *Machias* is an 82 foot long, double masted schooner, which has undergone a major renovation to become Hawaii's only live-aboard diving/sailing vessel. She carries up to 24 passengers and five crew members for open ocean voyages and 49 persons for day sails.

The schooner will take divers and non-divers into usually inaccessible dive spots off the islands of Hawaii, Maui, Molokai, Lanai, Kauai and Molokini Crater. More unique voyages are scheduled for the forbidden island of Niihau as well as Fanning Island and Christmas Island.

Accommodations include comfortable, air-conditioned Pullman-style berths with 110 volt outlet, light, fan and a place for personal storage. Each berth is curtained for privacy. The *Machias* is equipped with an auxiliary engine, two generators, several air compressors, a desalinator, satellite navigation, radar, radios and depth sounding equipment.

Nights are usually spent at anchor in protected waters. Home cooked meals feature fresh vegetables, Hawaiian fruit and freshly caught fish and lobster whenever possible. There are at least three dives daily and plenty of sailing, snorkeling, swimming, sunbathing and continuous outdoor adventure.

For information contact Island Odysseys toll free at (800) 367-5696.

SAN DIEGO PHOTO COMPETITION

The Seventh Annual Pacific Coast Underwater Photographic Championships will be held at Kellogg Park, La Jolla Shores, San Diego, California, August 10-11. The \$25 entry fee includes one roll of film, which will be shot Saturday, then developed and returned early that evening at a contestants' party. Participants will choose four slides for entry in any combination of the categories and turn them in that night for judging the next morning. The results and prizes will be given at the awards ceremony at 10:00 am at Sumner Auditorium, La Jolla, on Sunday. All contestants will be eligible for door prizes. Special team awards will also be given—six members per team at \$10 per team entry fee.

The competition categories include diver, macro and marine life in novice, amateur and advanced divisions. Humor is an open category. The event and registration start at 8:00 am Saturday. The film shoot takes place in the La Jolla Underwater Park until the deadline at 1:00 pm. The party starts at 6:00 pm.

For additional information and entry forms contact chairman Robert Melen-dez, c/o San Diego Council of Divers, P.O. Box 9259, San Diego, CA 92109, (619) 566-0752 (evenings); or publicity chairman Linda Bruton, (619) 696-4325 (days) or (619) 280-0667 (evenings).

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A savings on tuition will be in effect for a limited time at the Coastal School of Deep Sea Diving in Oakland, CA. The cost will be the lowest in the industry for the basic air course. The new rate applies to the July and October classes.

The basic air course covers 11½ weeks of training for the fields of construction, oilfield, salvage and research. Students are taught to use 17 different types of commercial diving equipment and will complete a mixed gas dive before graduation.

CO INSTRUCTORS

The College of Oceaneering, Wilmington, CA, has added two instructors.

Steve Wright has ten years of diving experience, most recently as saturation supervisor for Wharton Williams Taylor in Bombay, India. He will work with air/mixed gas and diving bell classes.

Peter Osberg worked out of the Gulf of Mexico in Louisiana and was involved in numerous oil platform inspection projects. He will be a full-time teaching assistant with the U/W inspection classes.

BEAVER DIVERS

The only dive store between Grand Junction and Denver has opened just below Beaver Creek in Avon, Colorado. The store will service such communities as Vail, Aspen, Breckenridge and Glenwood Springs. The store offers a complete sales and service department, air fills, rentals and a complete travel service. Beaver Divers also offers private and college courses on a flexible schedule, certifying NAUI, PADI and SSI.

Beaver Divers' address is 110 East Beaver Creek Boulevard, P.O. Box 3743, Vail, CO 81658.

NAUI EDUCATIONAL INSTRUCTION

NAUI has recently introduced new programs for diving in the academic community and for the private professional instructor who may teach through diverse facilities, including educational institutions. The new accredited educational institution program is designed to benefit colleges, universities, high schools and others with accredited scuba programs. Such institutions can now be recognized as NAUI affiliates.

The professional diving educator program is for the individual instructor or program director, rather than a facility. It provides services and benefits for them through a contract arrangement.

These programs create additional opportunities for those segments of the diving community that do not qualify as

NAUI Pro Facilities. Now, regardless of the setting in which NAUI programs are offered, the affiliate qualifies for benefits such as business and educational services, promotional materials and services, recognition materials and eligibility for tank inspection certification.

In addition to these benefits, professional educators receive special product incentives. Both affiliations also qualify for NAUI service bars for display with program decals to identify and advertise the offered services.

NAUI leadership programs are available for in-house development of staff. These encourage the NAUI network link between colleges/universities, retail outlets and resort destinations for referrals to quality diving service businesses.

For more information on one or both of these new NAUI programs, contact: Nick Craig, Member Services Coordinator, National Association of Underwater Instructors, P.O. Box 14650, Montclair, CA 91763.

BOTTOM TIME II

Bottom Time Adventures has begun construction of a new live-aboard dive boat, *Bottom Time II*, scheduled for completion in January 1986. The high-tech, Australian designed catamaran will be 78 feet long, 29 feet wide, and will accommodate 32 divers in comfortable double cabins. Each cabin will feature twin size bunks, lavatory and closet. The boat will have a large, modern galley, spacious dining area, wet bar, large afterdeck and individual dive lockers.

Bottom Time II will specialize in dive trips through the Bahamas, emphasizing the more remote areas accessible only to live-aboard vessels. For information contact Bottom Time Adventures, P.O. Box 11919, Ft. Lauderdale, FL 33339-1919; (305) 524-8352.

PETER HUGHES/TIARA BEACH

A Peter Hughes' dive operation has opened at the Tiara Beach Hotel on Cayman Brac. The operation will be getting a new dive boat that can accommodate up to 20 divers.

The Tiara Beach, on the Brac's southern shore, features a laid-back atmosphere in a sparkling tropical setting. The resort has 30 rooms, a freshwater swimming pool and the Turtle Pier Bar—a thatched roof oasis set out on a pier. Cayman Airways, the national flag carrier of the Cayman Islands, services the Brac with its 727 jets, as well as with a 15 seat Trislander.

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PADI COLLEGE GRADUATE PLACEMENT

As of May, PADI International College in Santa Ana, CA, had received a record number of requests for graduates of its eight week gold curriculum program. According to college dean Jim Williams, "We currently have 300 outstanding requests for college graduates—the vast majority of which we simply do not have the people to fill. These are top-notch positions with diving retailers and resorts. Many pay \$15,000 to \$18,000 per year—and some as much as \$25,000. There has never been a better time than now to enter diving as a full-time career through PADI International College."

Those interested in the College's gold curriculum can contact PADI International College, 1243 East Warner Avenue, Santa Ana, CA 92705.

TEKNA UNDERWATER VEHICLE RECALL

Tekna has announced a voluntary recall of some DV-3 and DV-3X Underwater Vehicles (catalog numbers T-5000 and T-5050, respectively) produced between December 14, 1984 and April 10, 1985.

Extended life tests at the factory have indicated that, under certain specific conditions, hydrogen gas can be generated within the vehicle. This may occur from: 1) electrolytic activity on internal metal components that, in the event of a leak, have been exposed to salt water; or 2) a rare mode of charger failure whereby hydrogen can be generated from the batteries. In either instance, the volume of gas generated may be greater than the number of catalysts can effectively neutralize in these earlier vehicles. Activation of the motor or headlight in the presence of hydrogen can cause a potentially dangerous explosive ignition within the vehicle's interior compartments.

In order to determine if your vehicle is affected by this recall, lift the carrying handle and read the serial number on the silver label affixed to the lower left side of the metal bezel plate. Then contact your local Tekna dealer, who has a list of the serial numbers being recalled.

If your vehicle has a serial number *not* included on this list, it already has the new catalyst configuration and is not affected by this recall.

If your vehicle has a serial number on the list, please return the vehicle to the Tekna dealer from whom you purchased it or to any authorized Tekna dealer. It will be retrofitted with additional catalytic devices at no charge to you. Your dealer may require your vehicle for several days in order to fully service it.

Warning: If you own a vehicle affected by this recall, do not dive with it or acti-

vate the motor or headlight switches until it has been retrofitted by your Tekna dealer. Even though your vehicle may be perfectly safe, it's important that you have the complete safety protection of these additional catalysts.

For fastest service in retrofitting your vehicle, please return it to your Tekna dealer. Sending your vehicle directly to Tekna will not guarantee more expedient service, and in fact, could significantly delay its return to you. Should you have any questions or problems regarding this procedure, please call Tekna's Customer Service Department collect at (415) 592-4070. 

OHIO TREASURE HUNT

Sub-Aquatics dive stores are hosting their Fifth Annual Treasure Hunt on Sunday, September 28, at Nelson Ledges Quarry, Ohio. Last year, hundreds of divers attended—all trying for the thousands of dollars in dive gear and the cash purse of \$512. The cost is \$5 per diver—of which \$1 goes to DAN and the rest will be given in purse money.

For more information contact Sub-Aquatics in Reynoldsburg, OH—(614) 864-1235; Northfield, OH—(216) 467-5575; or Pittsburgh, PA—(412) 531-5577. 

NEW CO COURSE

The College of Oceaneering in Wilmington, CA, is offering a course entitled Underwater Inspection for ROV Personnel and Data Controllers. The 17 day course is designed to increase the efficiency and effectiveness of offshore inspection programs conducted during ROV operations.

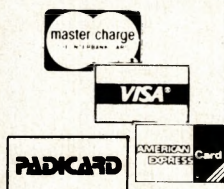
The course is open to graduates of the College of Oceaneering or any accredited commercial diving school, to those presently employed or experienced in the offshore industry, or those sponsored by a manufacturer or company operating ROVs. 

GORDON SHEARER/DEMA

Gordon Shearer, vice president and general manager of Dacor Corporation, has been unanimously elected to serve as DEMA's president for fiscal year 1985-1986. Shearer is a founding member of DEMA and has been an active board member for many years. His dedication to recreational diving is reflected in his involvement at all levels. His extensive travels, visiting dealers, distributors and suppliers throughout the world, give him a unique insight into the industry. He also contributes his experience as a member of PADI's advisory board.

Supporting Shearer will be Parkway's Frank Sanger, VP East and Dick Bonin of Scubapro, VP West. 

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Long Beach, CA 90808
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11830 W. Pico Blvd.
W. Los Angeles, CA 90064
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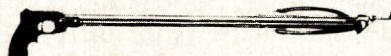
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PADI COLLEGE REPAIR COURSES

PADI International College's Professional Equipment Repair course now offers factory training and repair authorization from six equipment manufacturers: Dacor, SeaQuest, Scubapro, Sherwood, Tekna and U.S. Divers.

In addition, the course covers fundamentals of scuba equipment care and maintenance, an orientation to compressor maintenance and air and hydro testing procedures. This one week program is popular with both current and prospective dive store owners, managers and employees as it allows them to complete training that could otherwise only be duplicated through a substantial investment in time, money and effort. For more information, contact PADI International College, 1243 East Warner Avenue, Santa Ana, CA 92705.

TRI-STATE DIVE RETAIL ASSOCIATION

A new step forward has been achieved in the growth of New York diving with the formation of the Tri-State Dive Retail Association. Encompassing major dive stores in the New York, New Jersey and Connecticut areas, the association will focus its efforts on the continued growth and enhancement of the sport of diving in the Tri-State area.

Founding members of the association include Atlantis 2, Cougar Sports, Diving Bell, East Coast Diving, Harvey Dive Center, Kings County Divers, Martini Scuba, Orbit Marine, Pan Aqua Diving, Portside Dive Center, Richards Aqualung Center, Scuba Network, Scuba Training & Equipment Center, Ski & Scuba Sports, Scuba World, Sound Watersports, Underwater Sports of NJ, Westchester Dive Center, and Wheel House Dive Shop. Any interested retail dive store may contact Bob Tseng at (914) 937-2663 for information and details.

GARRETT OFFICER

James Brackenridge has been appointed chief executive officer of Garrett Electronics, Inc. "We are particularly excited about the high quality of leadership and motivation that Brackenridge is bringing to this company," said Charles Garrett. Twenty years ago Garrett founded the company that now produces a diverse line of land, underwater and security metal detection equipment.

A resident of Duncanville, Texas, Brackenridge comes to Garrett Electronics from a prior marketing executive position for a Texas-based firm and assumes responsibility for all phases of Garrett Electronics' production, manufacturing and marketing.

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POPULAR AQUA F-3	149.50
SUNPAK MARINE 32 FOR NIKONOS III, IV, V	209.00
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SEA & SEA YS-50A FOR NIKONOS III/IV/V	220.00
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SURSEA MK30 FOR NIKONOS III/IV/V	99.00
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NIKONOS 28/35MM OPTICAL VIEWFINDER	85.00
OCEANIC OPTICAL VIEWFINDER FOR NIKONOS III	45.00
SEA & SEA OPTICAL VIEWFINDER (18, 28, 35)	46.00

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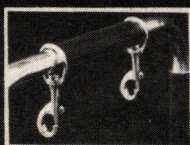
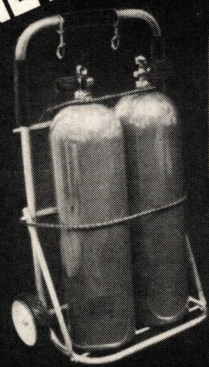
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SOUTHERN TREASURE

(Continued from Page 72)

probably call a Navy Seal recruiter to sign him up.

A run through the "caves" is easily worth the trip down. They are 58 inch diameter concrete cylinders laid out in a single 68 foot run. Johnson and Schwartz decided it was best to break it in the middle to let you out if you decide the darkness is just too much.

The tractor at 20 feet has an interesting history. It used to mow the lawn for the facility. But when it died and the chief mechanic declared it beyond hope, the staff decided it could continue its usefulness in the park. So, like the rest of the attractions, it was "float tested." It now sits rather proudly on a grassy lawn it will almost certainly never mow. But it has been a prop for many a photo.

At the end of the course, a well defined image looms out of the water: a mermaid. Aside from the poor woman's hands being gone and her "tail fin" rather solidly bound in concrete, she's quite a sight. All the parts are obviously in the right places. The well proportioned beauty is a must for the camera. The modest diver will want to bring a towel to wrap around her.

I really don't think it's possible to get through the course on a single tank of air. And, that's just for taking in all the attractions. I haven't even discussed the treasure yet. (You don't think they call it Treasure Lake just for the heck of it, do you?)

When Johnson decided his lake was going to have some treasure, he purchased two complete sets of billiard balls and labeled them with prizes from the Dive Locker. Then he and Schwartz tossed them in the lake. The lucky diver who finds one of these treasures is rewarded with the Dive Locker equipment named on the ball.

The only disappointing experience at Treasure Lake is climbing out of the water. It's really hard to find anyone who wants to leave. If there's an underwater Disney World, this is it. It was clearly put together by divers for divers and they knew what they were doing.

At the time of this writing, Johnson and Schwartz were still hard at work. By this publication, there should be a pirate ship and an island, complete with palm tree, floating on the lake for skin divers and snorkelers. A sandy beach and camping facility are also planned for non-diving spouses and children. Of course, new items are on the planning sheet for float testing, including a complete DC3 and a set of prehistoric animals from a defunct miniature golf course.

The concept of the park is an important one for the diving community as a whole. It offers the sport diver a safe, interesting alternative to all the much less controlled environments usually available. It is a

clear, current free, surge free, no decompression level facility stocked full of most everything a diver could want. It is an excellent place to learn safe diving habits. It is also a full family park that has taken the needs of non-divers into account.

The vision of Johnson and Schwartz is an idea whose time has come. And, it is an idea that the sport diver will almost certainly hear of again in other parts of the country. Treasure Lake and the Dive Locker are at 3013 W. Montague, North Charleston, SC 29405; phone (803) 747-1488. 

MEDICINE OF DIVING SEMINAR

The Peter Island hotel and Yacht Club on Peter Island in the British Virgin Islands has been selected as the site for the October 19-26 seminar on undersea medicine arranged by Medical Seminars, Inc. The academic staff will consist of Jefferson C. Davis, M.D., of the Southwest Texas Medical Center in San Antonio, Texas; Eric P. Kindwall, M.D., of St. Luke's Hospital in Milwaukee, Wisconsin, and David Elliot, M.D., medical director of Shell Oil in London, England.

The medical program is sponsored by the Undersea Medical Society for 25 Category I credits. There will be a scuba diving program including trips to the wreck of the *Rhone* and Anegada Reef.

For information, please contact: Medical Seminars, Inc., One Elm Place, Suite 204, 11107 Wurzbach Road, San Antonio, TX 78230; (512) 690-1005. 

REDT/CIHA

Marc Redt has been elected to his fourth term as president of the Cayman Islands Hotel Association. The French-born Redt has been on Grand Cayman for five and one-half years, the first three of which were spent as manager of the Holiday Inn.



Redt is managing director of Hospitality World, which manages Villas Pappagallo, Paradise Manor, Silver Sands, White Sands, Tamarind Bay, Villas of the Galleon, Coral Reef, Poinsettia and Sundowner. Diving arrangements are made with Don Foster's Dive Grand Cayman and complete dive accommodation packages can be arranged through Hospitality World, (800) 232-1034, or Scuba Tours, (800) 526-1394, in New Jersey (201) 256-9115. 

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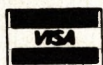
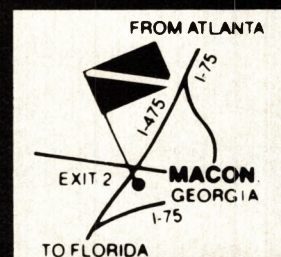
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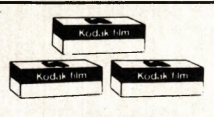
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DIVE INSTRUCTOR

(Continued from Page 86)

The nice part is that your local dive store can certify you for all of these courses, from basic to assistant instructor to various specialties. You don't have to go away to some school for weeks on end and usually the courses will fit into your free time.

INSTRUCTOR

The next and last step will require an eight day school. You can ask your instructor when and where some Instructor Training Courses (ITCs) are being held and through which certifying agency. I'm sure he or she will be glad to help direct you. The ITC will cover a lot of teaching techniques and course requirements. It usually runs all day and a few hours at night, also, so go prepared. Keep well brushed up on all your diving knowledge and skills—especially, know your dive tables. The purpose of the instructor training courses is *not* to make a polished professional out of you, but to give you a good start on ways to run your own courses. The polish comes with working in the field —nothing replaces experience as a teacher!

If you have any questions, set up a time to sit down and talk to your instructor or write to one of the certifying agencies. They will be glad to give you all the information you will need to know.

Being an instructor is fun and rewarding. It can be a part time hobby or lead to a career. I hope your enthusiasm spills over to all your future students. Good luck and good diving!

EDITORIAL

(Continued from Page 4)

terol and exactly how much is simply a matter of acquiring the right information. Medical science has made some tremendous advances in the field of nutrition during the last few years. A lot of misconceptions and superstitions have now been corrected, so be sure to get up-to-date information.

One of the best sources for this purpose is the *American Heart Association Cookbook*. This two inch thick volume is published by David McKay Company Inc. of New York and sells for \$15.95. Be sure to obtain the new, revised, expanded Fourth Edition. It contains the latest information including a Fat-Cholesterol Chart.

You will learn some amazing things from these books and it will open your eyes to a whole new world that exists *inside* your body. For example, you will discover that red meat such as a steak is loaded with cholesterol, as is liver. On the other hand, fish and poultry are great. You will learn that eggs are deadly, but

that *all* the cholesterol is in the egg yolks only. You can eat egg whites without danger. You will find that dairy products such as whole milk, butter, cream and cheese also contain large quantities of cholesterol. Ice cream is especially rich in it. Yet, very tasty dessert substitutes can be made from skim milk.

How do you get started? Here is an action plan that will launch you in the right direction. First, get the books recommended. Read up on cholesterol and which foods contain it.

Next, make an appointment with your doctor for a physical check-up. Be sure you don't already have a serious problem. Request a blood analysis and cholesterol count. Request an electrocardiogram just to check your heart. Explain to the doctor that you engage in diving and that it can sometimes be strenuous.

Meanwhile, cut back or eliminate red meat from your diet. Eat more chicken and turkey instead. Eat fish at least three to four times per week—the more the better. Vary your fish diet and include shellfish, especially mollusks such as clams, oysters and scallops. For a diver this should be fairly easy. Cut way back on eggs and try to eliminate eating egg yolks. Increase your consumption of vegetables, fresh fruits and grain products such as whole wheat bread, corn, rice and bran or oat cereals.

The most important thing is to start now. Don't put it off one more day. Give your heart a break, it's the only one you've got.

DAN BENEFIT DRIVE

Truth Aquatics of Santa Barbara, CA, and the Divers Alert Network (DAN) are offering a DAN benefit dive trip to Santa Rosa Island, CA, aboard the *Vision* on September 19. The staff will include: Ronnie Damico—diving instructor and Catalina Chamber supervisor; Dr. Glen Egstrom, Ph.D.—diving instructor, professor of Kinesiology and Diving Officer at UCLA; Wally Finn—Catalina Chamber operations manager and DAN Southwest regional co-coordinator; Jim Stewart—diving instructor, diving officer at Scripps Institution of Oceanography and chairman of the California State Underwater Parks Advisory Board.

Divemasters and instructors will have an opportunity to update and review their divemaster techniques. Basic and advanced divers will be able to review old skills and knowledge, learn new skills and have some great diving as well.

All divers will be required to buddy dive and work their tables. In addition, divers must possess a certification card, dive log, depth gauge, watch or dive timer. All tanks must be "in hydro" and have a current visual/inspection sticker.

Air and food are not included. For more information contact: DAN Dive Trip, 4017 Lyceum Ave., Los Angeles, CA 90066; (213) 306-8425.

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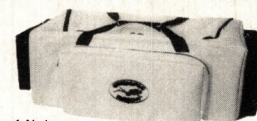
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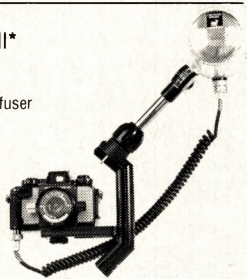
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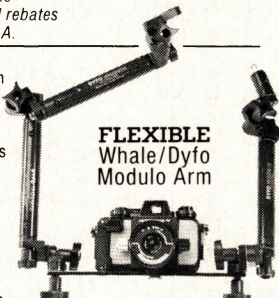
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WRECK FACTS

(Continued from Page 12)

researching wrecks in its region. This can be a great club project, Ken, because there are lots of places to investigate. Start with the Louisiana Division of Federal Records Survey in Baton Rouge. They have letters, passenger lists, marine casualty lists, etc. Be aware, however, that some of this material has been moved to Louisiana State University Library, so check there also. It might be a good idea to call the state office building in Baton Rouge and find out if there is a Louisiana Department of Archives and History. You have an excellent resource person down your way: Bubba Hoover, 1001 University Ct., Hammond, LA 70401. Bubba dives Lake Maurepas and other lakes, rivers, and bayous, bringing up Indian artifacts, cannonballs from the War of 1812 and Civil War armaments. He could be a prospective speaker for a club meeting.

California divers might be interested in two new books: *Guide to Catalina Island* and *Baja California Diver's Guide*. The Catalina guide, by Chicki Mallan, includes details about hotels, restaurants, camping, hiking and boat rentals. Several pages of diving describe the wreck of the *Valiant*, a luxurious yacht that sank in 1930, and the *Sue Jac*, a 70 foot schooner that went down in a northeaster in 1980. The history of the island is interesting too, going back to the Stone Age, Indian tribes and Spanish explorers. The book, \$5.95 plus \$1 postage, is available from: Donna Galason, Moon Publications, P.O. Box 1696, Chico, CA 95927.

Michael and Lauren Farley revised and updated their original underwater guide



Salvatierra crow's nest, Sea of Cortez.

photo/Bonnie J. Cardone

to Baja and published the most comprehensive book available on diving Baja's Sea of Cortez and Pacific waters. The 220 page paperback includes six major categories: Northern and Southern Baja of the Pacific and the Sea of Cortez: Northern, Central and Southern dive sites. The authors include 25 maps, many photos of marine life and information on seven shipwrecks. One of the wrecks, the *Salvatierra*, was a ferry boat transporting a cargo of trucks. The frames and wheels of some of the vehicles still protrude from the sand. The Baja guide is available from: Marcor Publishing Co., P.O. Box 1072, Port Hueneme, CA 93041.

That's all for now. Be sure and write to your state senators. Please include a stamped, self-addressed envelope if you write to me for shipwreck information: Ellsworth Boyd, 1120 Bernoudy Rd., White Hall, MD 21161.

LA MER/RED SEA

La Mer Diving Seafaris is offering Red Sea cruises aboard the 85 foot *Fantasea*, fully equipped for diving the area's remote reefs. La Mer, based in New York, is the only diving operator to offer programs that link Egypt and Israel; these programs are so popular that in 1985/86, two departures are scheduled for every month of the prime diving season in the Red Sea (March to November).

The land portion of the itinerary includes visits to Jerusalem, Cairo and the pyramids. This unique itinerary allows the *Fantasea* to be based in Eilat, with access to the finest maintenance facilities and the freshest provisions in the region.

The *Fantasea* accommodates ten divers in five double cabins, serviced by a crew of five. Onboard diving equipment includes aluminum tanks, an air compressor system, an air bank and two Zodiacs. From Eilat, the *Fantasea* cruises the 90 miles to the Straits of Tiran overnight, allowing maximum dive time. Reefs inaccessible via day trips from land-based dive operations can be fully explored in this live-aboard program and the *Fantasea* anchors at Gordon, Thomas, Woodhouse, Jackson, Tiran Island and Ras Muhamed reefs, plus the wreck of the *Dunraven*.

Details on the La Mer programs in the Red Sea can be obtained from La Mer president Amos Nachoum at (212) 599-0886 or toll free at (800) DIVE NOW.

SACHS/BOB SOTO'S

Ed Sachs has joined Bob Soto's Diving Ltd. as divemaster and business controls manager. He recently retired from IBM in Kingsport, TN, where he was responsible for hiring and training customer service representatives.

Sachs has extensive experience diving off Grand Cayman and is a NAUI/PADI divemaster.

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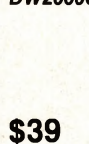
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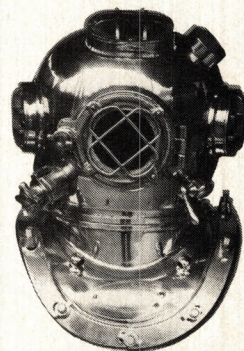
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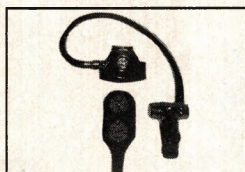
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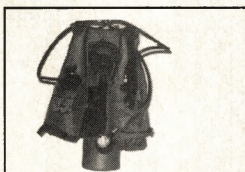
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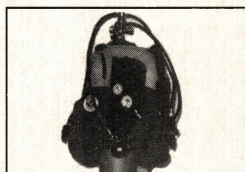
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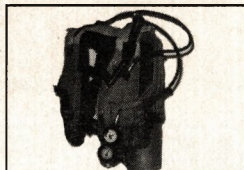
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THE HEUER 3000

Guaranteed to a depth of 660 feet, the Heuer 3000 quartz chronograph features a main dial face plus three small dial faces, a date box and a click stop bezel. The three small dials track elapsed time in hours (six o'clock position), minutes (nine o'clock position) and seconds (12 o'clock position), respectively.

An U/W Chronograph Of Exceptional Elegance

TEXT AND PHOTOGRAPHY BY GERI MURPHY

What is a chronograph? It is a timepiece that pinpoints the passage of time. In essence, a stopwatch. However, a good chronograph is generally more than just a simple stopwatch that can be quickly switched on and off. Most chronographs feature multiple dial faces for individually documenting different time frames such as hours, minutes and seconds. The chronograph is a highly sophisticated timepiece that has proven extremely useful to pilots, yachtsmen, race car drivers and other sportsmen.

Heuer (pronounced Hoyer) has combined the many functions of a chronograph and the precision of quartz timing in an underwater watch of exceptional beauty. It is called the Heuer quartz chronograph 3000 series and is available in five styles.

A quartz chronograph is considered to be the most accurate type of chronograph. Powered by a three year lithium battery, Heuer's quartz chronograph is fully automatic and requires no winding. The power from the battery vibrates a quartz chip at the phenomenal rate of 32,768 times per second! It is this con-

sistent, high frequency that is utilized for the precise timing of the watch movement. A quartz chronograph will seldom vary more than a minute over one year.

DESIGN

The model we tested at SKIN DIVER was stunning. It has a black matte finish stainless steel bracelet that projects a cool, calculated air of professionalism, yet could be worn at a black tie banquet.

The face of this watch (catalog number 236.006) is jet black with three gold face dials in miniature for the chronographic functions. Gold trim encircles the inner edge of the face with tritium filled pegs marking the hour positions.

A small but clearly visible magnifying window at the three o'clock position reveals the date, with sharply contrasting black numerals on a white background. The hour, minute and sweep second hands are all gold, achieving a look of elegance. This watch is fit for royalty!

The bezel—the one feature that clearly distinguishes a timepiece as being a diver's watch—is a beauty on the 3000. Sporting a rich gold finish, it features fine-

ly engraved numerals in increments of ten with tick marks for each of the 60 minutes. The outer edge of the bezel has 12 flat sides for a better grip and turning by a gloved hand. The bezel rotates in one direction and has a click stop ratchet.

The watch stem and two exterior control buttons are also decorated in gold for added style. If there ever was a designer watch, this is it.

FUNCTIONS

The functions of the Heuer 3000 can be separated into two basic groups: 1) normal watch and 2) special chronograph. All of the watch functions are displayed on the large main dial face. The magnifying window automatically displays the day of the month. The two main hands of the watch display the current hour and minute of the day. The smallest dial face, positioned at 12 o'clock, ticks off the seconds. All of the watch functions are set or adjusted by the winding stem on the right side.

The chronograph functions are activated by the two buttons located at two and four o'clock and are displayed on the main dial face and two small dial faces. Pushing the top button activates the largest sweep second hand on the main dial face. It ticks off the seconds. Pushing the top button again will freeze this hand.

If you let the sweep hand continue, the elapsed minutes are recorded on the small dial face at nine o'clock. Every full revolution of the sweep hand registers another minute on the small dial. The small dial face positioned at six o'clock records the elapsed hours. When the top button is pushed to freeze elapsed time, you have a precise, clear record of the hours, minutes and seconds. Pushing the lower button resets all three chronograph hands to zero.

We found the chronograph functions and controls to operate smoothly and quickly. The watch is a dream to use. As for diving, the Heuer 3000 is tested and guaranteed to a depth of 200 meters (660 feet). The dial face is clearly visible and easy to read underwater.

The bezel is also bright and highly visible. It rotates counter-clockwise only and has a firm click stop feel to it. It will not slip out of its pre-set position, even when bumped. The bezel can be used in conjunction with the chronograph to time two parts of a dive, such as total bottom time and decompression time.

This handsome professional dive watch retails for \$880. For more information about the 3000, see your local dive store dealer or contact Heuer Time & Electronics Corporation, 960 South Springfield Ave., Springfield, NJ 07081; telephone (201) 467-1890. The West Coast office is at 1900 Avenue of the Stars, Century City, CA 90067; telephone (213) 556-8208.

TECHNIFACTS

(Continued from Page 21)

joying such structures when diving, but it should be noted they can be very dangerous . . . All divers should be cautioned by their instructors that you do not have to be very far inside of anything underwater to become . . . lost. Witness the example of the Florida caves. Most deaths occur less than 100 feet from the entrance."

The cliff-like walls of many of the shorelines can also be potentially hazardous unless safety precautions are taken by the sport or archaeological diver. Lenihan said, "In many Southwestern reservoirs there are 'alcoves' or large undercuts in the sandstone that are not really caves but can cause problems similar to caves in low visibility. A procedure our Park Service divers standardized when working on the Inundation Study was to always take a compass bearing into the canyon wall. This gave a diver the option of always being able to get back to a point of reference (the wall) before ascending. When there is heavy boat traffic this is particularly critical—in many cases the body of water is too narrow to permit deploying a diver down flag."

While on the subject of underwater archaeological sites and their inspection and possible salvage, I would like to quote from a paper by Lenihan that was published in the Proceedings of the Alaskan Marine Archaeology Workshop. The workshop was held May 17-19, 1983, in Sitka, Alaska. The author's thoughts reflect a concept that could, if incorporated into the marine and underwater archaeological programs of all states, possibly solve many of the problems and conflicts existing among the scientific divers and their sport and commercial counterparts.

In his paper Lenihan stated, "A mandatory component of any justification for any site disturbance, besides imminent threat, would be development of a comprehensive research design that fully explains why this is the best alternative and that demonstrates definite availability of funds to deal with the *immense curation and conservation problems* that result from the removal of cultural remains from an underwater environment."

Sport divers should remember those words. Recovering artifacts from an underwater site, no matter how expensive, is possibly the least expense of having, and keeping, a display of historical objects from a submerged site. Such objects simply do not last unless quite complex and expensive preservation steps are taken.

Later in his paper the author stated, "Underwater archaeology has an appeal to a broad spectrum of society that is rarely equalled by any other discipline and this appeal should be capitalized on. The involvement of interested sport divers, amateur historians and the coopera-

tive assistance of other agencies should always be figured in as possible factors in the equation."

In the next paragraph the author stated, in part, "Interested sport divers have contributed thousands of hours to projects and at the same time have been exposed to a conservation philosophy toward submerged resources that has long-lasting benefits well after termination of the work." Still later, in a discussion of training programs conducted by Park Services personnel for rangers and sport divers, "These individuals are then permitted to conduct non-destructive investigations on submerged lands in National Parks. They are given access to government equipment and boats to map and photograph submerged sites and to set up baseline information for monitoring any vandalism or other attrition to the sites." It seems such an arrangement of sharing the archaeologically important sites would be both cost effective and a rewarding public relations approach to the tremendously expensive disciplines of underwater archaeology. Particularly it would appeal to most divers who would probably welcome the opportunity to add such activities to their diving.

COELENTERATA VS. CNIDARIA

Frank Barron, Rome, Georgia, wrote reminding me that the phylum Coelenterata was changed to the phylum Cnidaria. He went on to say, "I never knew why they changed it but understand it did happen." The name change did occur but has not been well accepted. As a matter of fact, a technical dictionary states, "Cnidaria—the equivalent name for Coelenterata." The reason for the change is that the original group of animals called Coelenterata by Leuckart in 1847, included the sponges and the ctenophores as well as the animals called coelenterates. Hyman, in 1940, therefore proposed that what had become accepted as Coelenterata be called Cnidaria. However, in the meantime, the name Coelenterata had become well accepted. As used by the majority of zoologists it did not include either the sponges or the ctenophores. It seemed there was little to be gained by changing the name. However, Cnidaria has been accepted by the ICZN (International Conference on Zoological Nomenclature) and will probably be with us for awhile.

With regard to my mistake in using the phylum name Coelenterata instead of Cnidaria, I have several books dealing with marine life. One is quite old; most are quite recent. While writing Technifacts I grabbed the older edition and was led astray.

BOOKS ON SALVAGE

Thomas J. Riordan of Baldwin, New York, wrote, "I am interested in . . . books on salvage of both small and larger vessels. This is in reference to your February 1981 Technifacts . . . offering to supply

readers with a brief review of four books on the subject."

Publications in the previous review of books on salvage included the first four of the books listed below. Additional texts on the subject, currently available, are also listed. Readers interested in receiving an updated, three page review of the eight books listed may write Technifacts, c/o SKIN DIVER Magazine, 8490 Sunset Blvd., Los Angeles, CA 90069. Send a legal sized, self-addressed return envelope with 39¢ postage.

1. *Marine Salvage Operations* by Edward M. Brady.

2. *Salvage From the Sea* by Commander Gerald Forsberg. Available from Rutledge and Kegan Paul, 39 Store Street, London WC1E 7DD, England.

3. *U.S. Navy Salvors Handbook*. Covers damage control, strandings, rigging, machinery and safety.

4. *Boatman's Guide to Light Salvage* by George H. Reid. Available from Cornell Maritime Press, Inc., Centerville, Maryland 21617.

5. *Diving Technical Manual*. This Navy publication has several sections that will be helpful to a salvage diver.

6. *Underwater Work*, written by John E. Cayford.

7. *Diving, Cutting and Welding in Underwater Salvage Operations* by Frank E. Thompson. This little book is useful and has been around for a long time, having been first published in 1944.

8. *Commercial Diving, Reference and Operations Handbook* by Mark Freitag and Anthony Woods.

Finally, there are two publications that will not be on the review list, but are of great value to all divers—Volume I and II of the *U.S. Navy Diving Manual*.

Unless otherwise noted all of the books listed may be obtained from Best Publishing Company, P.O. Box 1978, San Pedro, California 90732.

WATER POWER

The power of water: Possibly more than half of all electric power used in the United States is generated by hydroelectric systems that are part of dam structures, mostly in the six Western states of Washington, Oregon, California, Idaho, Montana and Wyoming. The March and April 1985 Technifacts told about some of these dams and about commercial diver Dave Darlow and the part he plays in keeping "his" dams in good working order. In spite of the gigantism of these structures, they are frail things and require constant maintenance, including that which can best be done underwater by skilled divers.

In a recent talk with Dave I found he had been on the high roads with his huge semi, loaded with the diving gear and tools of his underwater trade. In November 1984 he worked on the Boundary Dam just a few miles south of the Canadian border in eastern Washington. Next it was to a dam near Missoula, Montana.

Then, during the week of March 18, he drove from Spokane, Washington, to the Oxbow Dam (207 feet deep by 725 feet long) across the Snake River between Idaho and Oregon. This is sort of a medium size rock-fill dam; the largest such structure (990 feet high by 2,300 feet long) is the Nourek Dam across the Vakhsh River in the USSR. During the week of March 25, Dave drove back to Montana, this time to a dam near Great Falls. By April 1 he was again on the road, south, now, for work deep in the Buffalo Bill Dam near Cody, Wyoming. This unusual dam is higher than it is wide, 325 feet deep and 200 feet wide, and is in one of the narrow gorges of Shoshone Canyon. It is a fantastically picturesque, arch-type dam structure.

During a review of my notes and some 100 or so slides of rivers and dams I again realized their importance in our daily lives. Also, I thought often of how fortunate it is that there are underwater workers such as Dave Darlow. They play such an important part in the safe, constant operation of dam systems that provide so much of our renewable, non-polluting energy. 🌿

METZELER CORRECTION



photo/Fred Fischer

On page 67 in the July issue of SKIN DIVER there was an article by Fred Fischer on the Metzeler Brigant LS inflatable boat. Unfortunately, the printer dropped the last nine lines on this page, including the sentence letting readers know the story was continued on page 132. Reproduced here are the missing lines. For the beginning and end of the article, please see your July SKIN DIVER.

The missing block of copy read:

stretches over the transom to keep water out. The purpose of this arrangement is to transfer the thrust of the engine to the floor of the boat and to provide very reliable attachment points high on the transom for water ski tow lines. Additional advantages include easy replacement of a damaged or aged transom and a boat that folds into a small package without (Continued on page 132)

We regret any inconvenience this may have caused our readers. 🌿

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Marina, saunas, tennis, pools, 2 mi. Pennekamp Park.	
Great diving, fishing, sailing. Special summer rates.	
KEY LARGO LUXURY ACCOMMODATIONS	305/255-4556
P.O. Box 161414, Miami, FL 33116	
2 bedroom/2 bath, waterfront home with dock, fully furnished, sleeps 4-6. \$370/week.	
KEY LARGO LUXURY CONDO	513/984-0866
Oleinik, 8555 Blue Cut Ln., Cincinnati, OH 45243	
Luxuriously decorated, 2 bedroom, dock, pool, sauna, tennis. Minutes from best dive areas.	
KEY WEST PRO DIVE SHOP, INC.	305/296-3823
1605 N. Roosevelt Bl., Key West, FL 33040	
Instruction, sales, service, charters, air.	
Private instruction and open water checkouts.	
KINGSAIL RESORT MOTEL	305/743-5246
P.O. Box 986, Marathon, FL 33050	
Efficiencies, motel rooms, dive shop, reef trips, pool, rental boats, free dockage & ramp. Free coffee.	
LADY CYANA DIVERS	305/664-8717
P.O. Box 1157, Islamorada, FL 33036 MM 85.9	
Daily reef trips aboard our 40' and 60' custom dive boats.	
Rentals, air, sales, service, instruction, group rates, packages.	
LOOE KEY REEF RESORT & MARINA	305/872-2215
P.O. Box 509G, Ramrod Key, FL 33042 MM.27	
Singles, doubles, tv, pool, spa, restaurant, ramp, dockage.	
Compl. dive shop, instr., USCG cert. custom dive boat, grp. rates.	
PENNEKAMP STATE PARK CONCESSION	305/451-1621
Box 13M, MM 102.5, Key Largo, FL 33037	800/432-2871
The only dive shop located directly in Pennekamp.	
Free brochure, send 50c for reef chart.	
PLANTATION KEY LUXURY CONDO	305/852-5748
c/o Plantation Villas, Box 17, Tavernier, FL 33070	
Beautiful 1 BR condo (sleeps 4) on bay. Has everything.	
Boat ramp & docks. \$295/wk. May-Nov., \$350/wk. Dec.-Apr.	
QUIESCENCE DIVING SERVICES, INC.	305/451-2440
P.O. Box N-13, Key Largo, FL 33037 MM. 103.5	
Personalized charters in Pennekamp, only 6 divers per boat.	
Instruction: Basic, Advanced, Specialty courses.	
RENT 20' FLORIDA KEYS DIVE BOAT	305/743-0391
and stay aboard 46' luxuriously furnished, color tv, A/C	
houseboat at small private island. Dive Pennekamp, Looe Key	
Alligator Reef, Crystal dive water. \$695 week.	
RENT 28' FLORIDA KEYS DIVE BOAT	305/852-9076
Dive all the Keys hot spots from this fast, comfortable,	
twin engine dive boat. Sleep aboard 4, galley, shower,	
A/C, flybridge, dive platform, boarding ladder, \$795 wk.	
ROCK REEF RESORT	305/852-2401
P.O. Box 73, Key Largo, FL 33037 MM. 98	
Divers Paradise, spacious grounds, beach, jacuzzi,	
comfortable accommodations and comfortable prices.	
SEA CENTER DIVE SHOP	305/872-2319
P.O. Box 515, Big Pine Key, FL 33043 MM. 29.5	
Dive Looe Key, custom boats, dive/lodging packages.	
PADI facility, full service shop, 24 hr. hydro.	
SEA DWELLERS SPORTS CENTER	305/451-3640
99850 Overseas Hwy., Key Largo, FL 33037	
Dive and snorkel Pennekamp Park.	
Special weekday rates.	
SEA TRAIL MOTEL	305/852-8001
Rt. 5, P.O. Box 91, Key Largo, FL 33037, MM 98.5	
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10% discount. Advanced reservations May through Nov.	

SEAFARER RESORT MOTEL	305/852-5349
P.O. Box 185, Key Largo, FL 33037 MM. 97.8 (Gulfside)	
'Fantasy Island' setting, real sandy beach & free paddle boat.	
Clean rooms & efficiencies. Please contact us for group rates!	
SHORELINE MOTEL	305/664-4027
Rt. 1, Box 57, Islamorada, FL 33036 MM. 81	
Low rates, clean rooms, cable TV, refrigerators,	
beach, free dockage and boat ramp.	
STEVE KLEM U/W GUIDE SERVICE	305/451-1831
P.O. Box 1803, Key Largo, FL 33037 MM. 104	
Dive with the legendary "Pied Piper of Pennekamp Park".	
Let Steve introduce you to his U/W pets. 6 divers only.	
THE BOAT, a div. of Triangle Watersports, Inc.	305/745-BOAT
Rt. 2, Box 617, Summerland, FL 33042	
Free color brochure, customized dives, adventure experiences,	
instruction, U/W video, Looe Key (FL Keys), Belize(Central America).	
THE DIVING SITE, INC.	US 800/634-3935; FL 800/821-9155
12399 Overseas Hwy., Marathon, FL 33050 MM. 53.5	
30, 16 & 6 pass. dive boats. Daily reef trips.	305/289-1021
Charters & group rates, PADI lessons, sales, repairs, dive pkgs.	
THE REEF AT MARATHON RESORT CLUB	US-800/327-4836
P.O. Box 871, Marathon, FL 33050	FL-305/743-7900
2 BR/2 BA villas, efficiencies, motel rooms, tennis, pool,	
clubhouse & marina. Dive pkgs. & mtl. boats avail.	

GEORGIA

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5208 Mercer Univ. Dr., Macon, GA 31210	
PADI training facility, best deal & service.	
Located at exit 2 on I-475	
DIVING WORLD USA	404/634-4354
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SANDY SPRINGS DIVERS	404/252-9372
6445 Roswell Rd., Atlanta, GA 30328	
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Honolulu, HI 96825	808/395-8882
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58' catamaran, 26' cruisers, small grps., all land activities.	
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4 & 5 day scuba classes. Request info from Maui's best.	
DIVE MAKAI CHARTERS	808/329-2025
P.O. Box 2955, Kailua-Kona, HI 96745	Priv. PADI instr.
Diving with a difference, we care! Write to Tom & Lisa.	
Rated Kona's best every year since '76 by Undercurrent.	
DIVE MAUI INC.	808/667-2080 or 661-4363
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Full service NAUI, PADI, SSI store. 3 boats leaving	
daily for Maui, Lanai, Molokini. Free maps. Photog. avail.	
FATHOM FIVE DIVERS	808/742-6991
P.O. Box 907, Koloa, Kauai, HI 96756	
Specializing in small personal charters, daily trips.	
NAUI and PADI instruction, air, rentals, photography.	
HAWAIIAN WATERCOLORS	808/879-3584
P.O. Box 616, Kihei, Maui, HI 96753	
Experts in dive charters, U/W video, U/W photography.	
Contact Ed Robinson for information.	
KALIA HOTEL	808/922-1961
2164 Kalia Rd., Waikiki Beach, Honolulu, HI 96815	
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penthouse rooms available, some with cooking facilities.	
KONA COAST DIVERS	808/329-8802
75-5614 Palani Rd., Kailua-Kona, HI 96740	
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Retail, rentals, air & vacation pkg. available. Write today.	
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710 Front St., Lahaina, Maui, HI 96761	
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aboard the 43 ft. dive boat, the 'Reliant'.	
LEEWARD DIVE CENTER	808/696-3414
85-979 Farrington Hwy., Waianae, HI 96792	
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MAUI DIVE SHOP	808/879-3388
P.O. Box 1018, Azeka Place, Kihei, HI 96753	
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Dive charters to Molokini, rentals, 5 day scuba classes, windsurfing.	

MIKE SEVERNS SCUBA DIVING	808/879-6596
P.O. Box 627, Kihei, Maui, HI 96753	
Small groups, 5 cert. divers max. Guided boat dives.	
Two person privates w/Tekna DVX3 scooters.	
OCEAN ACTIVITIES CENTER	808/879-4485
3750 Wailea Alanui, D-2, Wailea, HI 96753	
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Daily dives to Molokini, La Perouse, Kahoolawe, Lanai.	
OCEAN SPORTS North Kona Coast	
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WAIKIKI DIVING, INC.-WAIKIKI DIVING SCHOOL	808/922-7188
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ILLINOIS

THE GEAR BAG, INC.	312/637-FINS
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INDIANA

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MICHIGAN

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WOLF'S DIVER'S SUPPLY 616/926-1068
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PADI training facility, pro dive shop. Closed Wednesday.

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Dacor has developed a complete new line of consoles that provide the diver with a handful of information at a glance. These single panel precision instruments have up to seven functions and are designed for years of rugged use with durable elements protected by an environment-proof exterior rubber casing. Designed ergonomically to fit comfortably in the palm of the hand, each high-tech unit features a 360 swivel and easy-access controls. The ultimate in underwater information processing for today... and tomorrow.

MI6-250

CONSOLE
MI2-250
WITH COMPASS
MI4-250

CONSOLE
MI5-250
WITH COMPASS
MI6-250



EASY ADD-ON
COMPASS MODULE

- **MAXIMUM DEPTH INDICATOR GAUGE**—(MDI 250) luminous, easy-to-read dial with color-coded depth zones that scales to 250 feet. Maximum depth indicator resets conveniently by hand, no tools necessary.
- **CHRONOMETER/CLOCK**—Measures time with quartz accuracy. LCD readout in 12 or 24 hour mode. Use for surface interval time calculation.
- **THERMOMETER**—Instant reacting with dial reading from 15-130 degrees Fahrenheit.
- **DIGITAL BOTTOM TIMER**—Automatically starts/stops at 5 foot depth threshold. Easy-to-read, precision LCD readout with electronic quartz accuracy.

- **ZERO-IN ALTITUDE ADJUSTMENT**—Located on exterior of case for easy access.
- **PRESSURE GAUGE (TAG-2)**—Solid brass housing, registers to 4500 PSI working pressure with color-coded scale.
- **DIRECT SIGHTING COMPASS MODULE**—Easy add-on instrument gives diver underwater direction-finding capability. Large window on bottom of unit allows direct sighting. Gunsight-type lugs on rotating bezel let diver keep body on lubber line.
- **EASY-ACCESS CONTROLS**—Buttons for bottom timer/chronometer are conveniently located on front of unit and can be activated easily even with a gloved hand.



DACOR CORPORATION
161 Northfield Road
Northfield, IL 60093
Phone: (312) 446-9555

Send \$3.00 for Dacor Diver Kit.
Includes catalog, cloth patch,
decomp. table decals.

The first BC to compensate for comfort.

Introducing the new JMC BC. A lot of BC's compensate for buoyancy. But put a tank on them, take a few steps, and you'll soon realize that any claims of comfort are highly inflated.

The new JMC BC is quite the exception. It's the only one designed from the ground up for comfort.

Try one on—with a tank—then walk around. Its Alpine-type integral Bac Pac transfers all the tank's weight from your shoulders to your hips. You're no longer a beast of burden (in or out of the water). Now do a few wide open arm circles. Notice the arm freedom. No straight jacket restrictions. Just effortless movement in every direction.

Our unique design also lifts you higher above the waves for even more comfort and visibility.

The JMC BC incorporates quite a number of other unique features some BC's may offer in the future. But we think it will be awhile. You see, the JMC BC features everything we've learned about buoyancy control (and comfort) in the last 30 years of diving.

Want more information? Contact your authorized Aqua-Lung Pro-Line dealer or U.S. DIVERS, 3323 W. Warner, P.O. Box 25018, Santa Ana, CA 92799-5018, or call (714) 540-8010. Experience the first BC to compensate for comfort.

An overpressure safety relief valve automatically expels all air over 2 lbs. above ambient. It comes with a manual pull dump for precise buoyancy control.

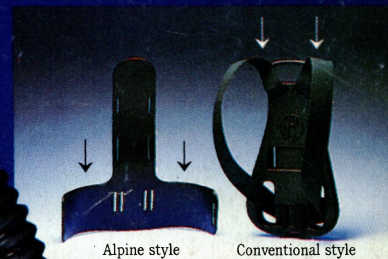


You float higher above the water's surface for better visibility and surface comfort.



The streamlined low-profile design hugs your body like no other BC can. You also get the best internal bladder design in the United States: a compartmentalized system that not only eliminates bulkiness, but UV and ozone deterioration. Even punctures caused by salt crystals.

Our two large, self-draining Lycra Spandex utility pockets feature Velcro® hold-downs and are slanted to hold our Octopus regulator. And no more D-rings to fiddle with. Our unique dual-size adjustment fasteners ensure a comfortable fit without the fuss.



The built-in Alpine style Bac Pac transfers tank weight from the shoulders to the hips for unsurpassed comfort.

Inflation and precise buoyancy control are effortless with our unique, easy-to-use inflation system.

Nobody makes a tougher outer bag than U.S. Divers. Made of durable nylon, it resists punctures, time after time. And it features a tank carrying harness for ease of handling.



We've applied for a patent on this one: our unique Sea Band cummerbund. Once set on the surface, it automatically compensates for the compression of your wet suit throughout your dive. No more needless adjustments.

The new JM Cousteau BC from

U.S. DIVERS®